

=> d his

(FILE 'HOME' ENTERED AT 14:34:37 ON 16 DEC 2008)

FILE 'REGISTRY' ENTERED AT 14:34:59 ON 16 DEC 2008

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 0 S L1 AND L2
L4 0 S L1 AND L2 FULL
L5 7 S L1
L6 214 S L1 FULL
L7 2 S L2
L8 81 S L2 FULL
L9 0 S L6 AND L8

FILE 'CAPLUS' ENTERED AT 14:42:19 ON 16 DEC 2008

L10 112 S L6
L11 5 S L8
L12 0 S L10 AND L11

=> fil reg

FILE 'REGISTRY' ENTERED AT 14:46:10 ON 16 DEC 2008

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STRUCTURE FILE UPDATES: 15 DEC 2008 HIGHEST RN 1084993-68-9
DICTIONARY FILE UPDATES: 15 DEC 2008 HIGHEST RN 1084993-68-9

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
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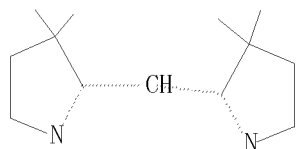
REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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L1 HAS NO ANSWERS

L1 STR

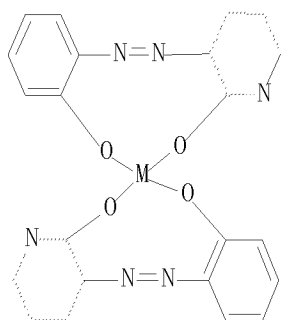


Structure attributes must be viewed using STN Express query preparation.

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L2 STR



Structure attributes must be viewed using STN Express query preparation.

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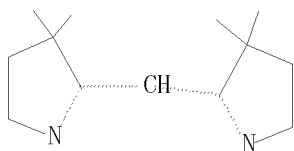
FILE COVERS 1907 - 16 Dec 2008 VOL 149 ISS 25
 FILE LAST UPDATED: 15 Dec 2008 (20081215/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

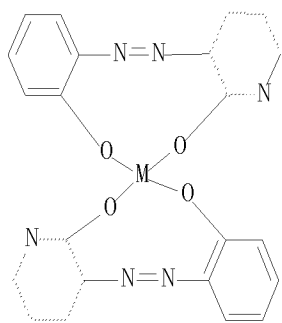
Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>
 '.FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

=> d que 112 stat
 L1 STR



Structure attributes must be viewed using STN Express query preparation.
 L2 STR



Structure attributes must be viewed using STN Express query preparation.

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L8          81 SEA FILE=REGISTRY SSS FUL L2
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L11         5 SEA FILE=CAPLUS ABB=ON  PLU=ON  L8
L12         0 SEA FILE=CAPLUS ABB=ON  PLU=ON  L10 AND L11
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L11 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2003:792203 CAPLUS

DN 141:32818

TI Synthesis and absorption properties of some new azo-metal chelates and their ligands

AU Song, Haifeng; Chen, Kongchang; Wu, Dongning; Tian, He

CS Institute of Fine Chemicals, East China University of Science and Technology, Shanghai, 200237, Peop. Rep. China

SO Dyes and Pigments (2003), Volume Date 2004, 60(2), 111-119

CODEN: DYPIDX; ISSN: 0143-7208

Elsevier Science Ltd.

Journal

English

OS CASREACT 141:32818

AB Azo-metal chelates ML2 (M = Ni, Cr, Co; HL = A-N-N-B; A and/or B = substituted thiazolyl-, thiadiazolyl-, phenoxyl-, hydroxypyridonyl-, naphthyl- and barbiturate) were synthesized. Their structures were confirmed by IR spectra, MS spectra and UV-visible spectra. Their solubility in 4-hydroxy-4-methyl-2-pentanone and absorption properties of films were measured. The influence on the difference of absorption maximum from azo-metal chelates to their ligands by diazo components, coupling components and metal ions was studied.

IT 700814-37-5P 700814-40-0P 700814-43-3P

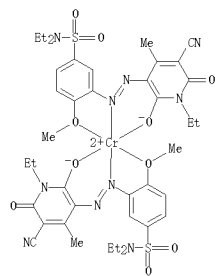
700814-64-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and absorption properties of azo-metal chelates)

RN 700814-37-5 CAPLUS

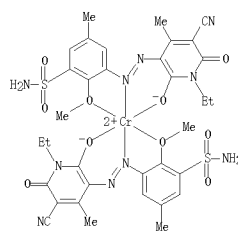
CN Chromium, bis[3-[[5-cyano-1-ethyl-1,6-dihydro-2-(hydroxy-κO)-4-methyl-6-oxo-3-pyridinyl]azo-κN1]-N,N-diethyl-4-(methoxy-κO)benzenesulfonamido]-, (OC-6-22')-(9CI) (CA INDEX NAME)



RN 700814-40-0 CAPLUS

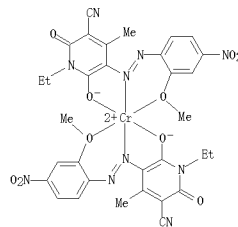
CN Chromium, bis[3-[[5-cyano-1-ethyl-1,6-dihydro-2-(hydroxy-κO)-4-methyl-6-oxo-3-pyridinyl]azo-κN1]-N,N-diethyl-4-(methoxy-κO)methylbenzenesulfonamido]-, (OC-6-22')-(9CI) (CA INDEX NAME)

L11 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 700814-43-3 CAPLUS

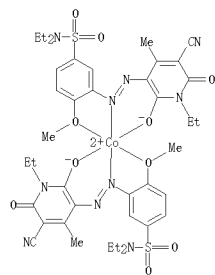
CN Chromium, bis[1-ethyl-1,2-dihydro-6-(hydroxy-κO)-5-[[2-(methoxy-κO)-4-nitrophenyl]azo-κN1]-4-methyl-2-oxo-3-pyridinecarboximidate]-, (OC-6-22')-(9CI) (CA INDEX NAME)



RN 700814-64-8 CAPLUS

CN Cobalt, bis[3-[[5-cyano-1-ethyl-1,6-dihydro-2-(hydroxy-κO)-4-methyl-6-oxo-3-pyridinyl]azo-κN1]-N,N-diethyl-4-(methoxy-κO)benzenesulfonamido]-, (OC-6-22')-(9CI) (CA INDEX NAME)

L11 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1987:51692 CAPLUS

DN 106:51692

ORIEF 106:8564h,8565a

TI Sulfonic acid group-free basic azo compounds

IN Moser, Helmut A.; Wald, Roland

FA Sandoz-Patent-G.m.b.H., Fed. Rep. Ger.

SO Ger. Offen., 32 pp.

CODEN: GWXXBX

Patent

German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 3609590	A1	19861002	DE 1986-3609590	19860321
DE 3609590	C3	19881013		
DE 3609590	C3	19900308		
CH 667464	A5	19881014	CH 1986-1164	19860324
SE 8601401	A	19861001	SE 1986-1401	19860326
SE 468592	B	19930111		
SE 468592	C	19930606		
FR 2579606	A1	19861003	FR 1986-4666	19860327
FR 2579606	B1	19890818		
GB 2173210	A	19861008	GB 1986-7702	19860327
GB 2173210	B	19890816		
JP 61231056	A	19861015	JP 1986-68859	19860328
JP 00062969	B	19940817		
US 5352334	A	19941004	US 1992-981740	19921125
PRAI DE 1985-3511733	A1	19850330		
US 1986-845097	B2	19860327		
US 1987-75368	B3	19870720		
US 1991-709849	B1	19910603		
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title azo compds. I [n = 1, 2; M = Z1NR7RS, Z1N+R7RSR9 A-; R = H, C1-4 alkyl, C5-6 cycloalkyl, Ph, PhCH2, PhCH2CH2; R1 = H, CN, CO2R4, CONR5R6, SO2NR5R6; R2 = H, halogen, OH, NO2, CO2H, C1-4 alkyl, C1-4 alkoxy; R4 = C1-6 alkyl, phenyl(C1-3)alkyl; R5, R6 = H, C1-4 alkyl; R7, R8 = (substituted) C1-6 alkyl, substituted phenylalkyl, (substituted) C5-6 cycloalkyl; R9 = (substituted) C1-4 alkyl, CH2Ac, CH2CONH2, CH2CH(OH)CH2C1; A- = anion; Z = direct bond or bridging group; Z1 = branched or linear C2-8 alkylene] are useful for dyeing or printing of paper, cellulose materials, textiles, or leather. Thus, 4,4'-diaminodiphenylmethane with tetrazotized and coupled with II to form III.

IT 106314-36-7P

RL: PREP (Preparation)

(manufacture of, as brown dye for paper and leather)

RN 106314-36-7 CAPLUS

CN Chromium(3+), bis[1'-[3-(dimethylamino)propyl]-5'-[[4-[[[1'-[3-(dimethylamino)propyl]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo[1,3'-bipyridinium]-5'-yl]azol-3-hydroxyphenyl]sulfonylamino]phenyl]azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-1,3'-bipyridinylato(2-)]-, triacetate (9CI) (CA INDEX NAME)

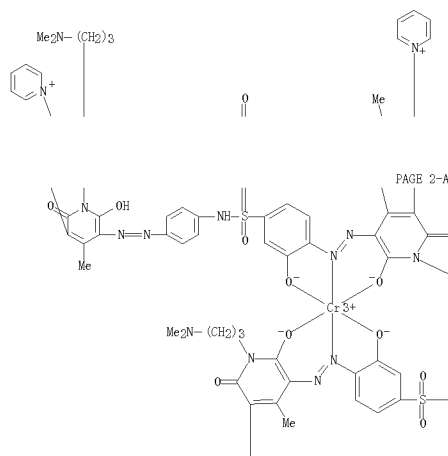
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CN 106314-35-6

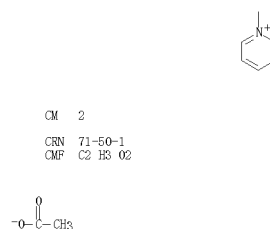
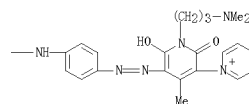
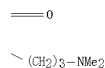
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CCI CCS

L11 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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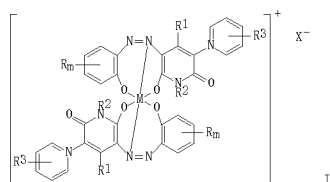
L11 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
PAGE 2-B



L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1986:70282 CAPLUS
DN 104:70282
OREF 104:11245a,11248a
TI Metal complex compounds
PA Hodogaya Chemical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60106859	A	19850612	JP 1983-212603	19831114
	JP 04060945	B	19920817		
PRAI	JP 1983-212603		19831114		
GI					

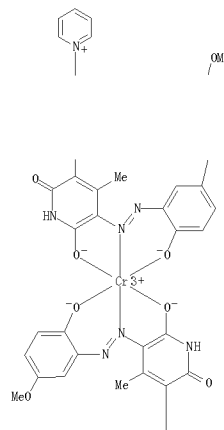
L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
PAGE 1-A



AB The metal complex compds. I [R = H, Cl-10 alkyl, Cl-4 alkoxy, C2-5 alkoxy, C2-5 acyl, aminocarbonyl, C2-5 alkylaminocarbonyl, Cl-3 alkylsulfonyl, aminosulfonyl, C2-6 acylamino, NO2, CN, halo; m = 1-4 (when m ≥ 2, R's may differ); R1 = H, halo, CN, NO2, Me, Et, Pr; R2 = H, Cl-10 alkyl, (substituted) Ph; R3 = H, Cl-4 alkyl, halo; M = Cr, Co; X- = anion], when used in electrophotog. developers, show excellent charge-controlling properties and, when used in coloring of fibers and plastics, show high fastness. Thus, 4-chloro-2-aminophenol was diazotized and coupled with N-(2-oxo-4-methyl-6-hydroxy-1,2-dihydropyridin-3-yl)pyridinium chloride to give the monoazo compound (II). II was dissolved in 150 parts Me Cellosolve, mixed with Na Cr salicylate, and stirred at 90-95° for 3 h to give I (R = 3-Cl; m = 1; R1 = Me; R2 = H; R3 = H; M = Cr, X = Cl), which was used in an electrophotog. composition comprising Bu methacrylate-styrene copolymer and carbon black, providing very bright images.

IT 100012-91-7 100012-92-8 100012-93-9
100012-94-0 100012-95-1 100012-96-2
100012-97-3 100012-98-4 100012-99-5
100013-00-1 100013-01-2 100013-02-3
100013-03-4 100013-04-5 100013-05-6
100013-06-7 100013-06-5 100013-07-6
RL: USES (Uses)
(dye, for color electrophotog., preparation of)

RN 100012-91-7 CAPLUS
CN Chromium(III), bis[1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-5-methoxyphenyl)azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)



L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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RN 100012-92-8 CAPLUS
 CN Chromium(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-4,5-dimethylphenyl)azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

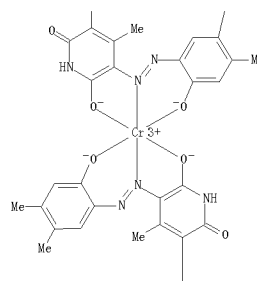
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Me

L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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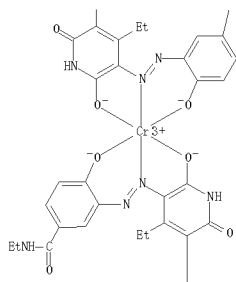
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 CN Chromium(1+), bis[4'-ethyl-5'-[[5-[(ethylamino)carbonyl]-2-hydroxyphenyl]azo]-1',2'-dihydro-6'-hydroxy-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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RN 100012-94-0 CAPLUS
 CN Chromium(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-5-iodophenyl)azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

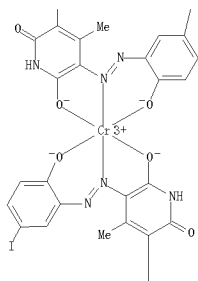
PAGE 1-A



I

L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 2-A

● Cl⁻

RN 100012-95-1 CAPLUS
 CN Chromium(1+), bis[5'-[[5-(acetylamino)-2-hydroxyphenyl]azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

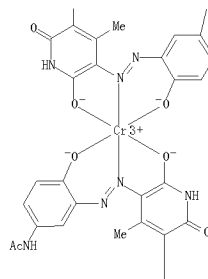
L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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NHAc

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L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 3-A

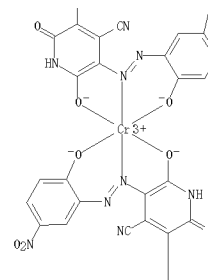
● Cl⁻

RN 100012-96-2 CAPLUS
 CN Chromium(1+), bis[4'-cyano-1',2'-dihydro-6'-hydroxy-5'-[[2-hydroxy-5-nitrophenyl]azo]-2'-oxo-1,3'-bipyridiniumato(2-)]-, bromide (9CI) (CA INDEX NAME)

PAGE 1-A

L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

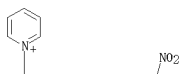
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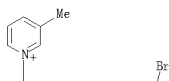
PAGE 3-A

● Br⁻

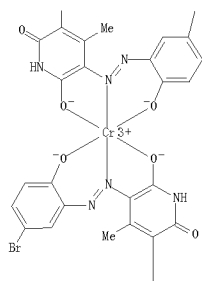
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 CN Chromium(1+), bis[5'-[[5-bromo-2-hydroxyphenyl]azo]-1',2'-dihydro-6'-hydroxy-3,4'-dimethyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

NO₂

L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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Br

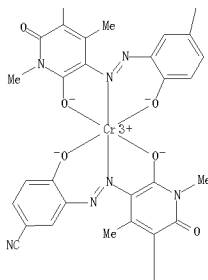


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CN

L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
PAGE 2-A



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● Cl⁻

RN 100012-99-5 CAPLUS
CN Chromium(1+), bis[5'-[[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-1'-octadecyl-2'-oxo-1,3'-bipyridiniumato(2-)]-], chloride (9Cl) (CA INDEX NAME)

L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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● Cl⁻

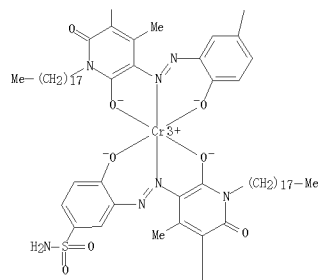
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CN Chromium(1+), bis[5'-[[[5-cyano-2-hydroxyphenyl]azo]-1',2'-dihydro-6'-hydroxy-1',4'-dimethyl-2'-oxo-1,3'-bipyridiniumato(2-)]-], chloride (9Cl) (CA INDEX NAME)

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L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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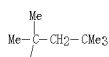
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 CN Chromium(1+), bis[1'-(2-chlorophenyl)-1',2'-dihydro-6'-hydroxy-5'-[[2-hydroxy-5-nitrophenyl]azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

PAGE 1-A

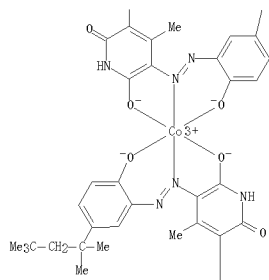


L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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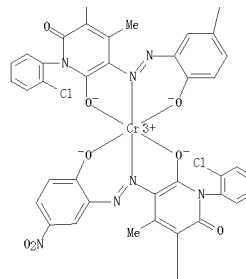


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L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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RN 100013-01-2 CAPLUS
 CN Cobalt(1+), bis[3-chloro-1',2'-dihydro-6'-hydroxy-5'-[[2-hydroxy-5-(1,1,3,3-tetramethylbutyl)phenyl]azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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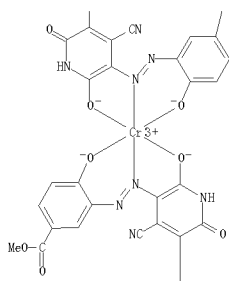
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 CN Chromium(1+), bis[4'-cyano-1',2'-dihydro-6'-hydroxy-5'-[[2-hydroxy-5-(methoxycarbonyl)phenyl]azo]-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

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L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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● Cl⁻

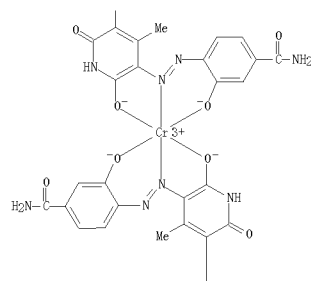
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 CN Chromium(1+), bis[5'-[[4-(aminocarbonyl)-2-hydroxyphenyl]azo]-1',2'-dihydro-6'-hydroxy-3,4'-dimethyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A

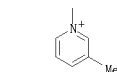


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L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 3-A

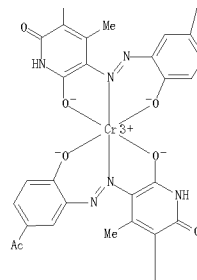
● Cl⁻

RN 100013-04-5 CAPLUS
 CN Chromium(1+), bis[5'-[[5-acetyl-2-hydroxyphenyl]azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

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L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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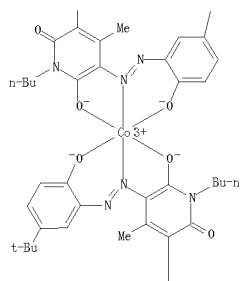
● Cl⁻

RN 100013-05-6 CAPLUS
 CN Cobalt(1+), bis[1'-butyl-5'-[[5-(1,1-dimethylethyl)-2-hydroxyphenyl]azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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Bu-t

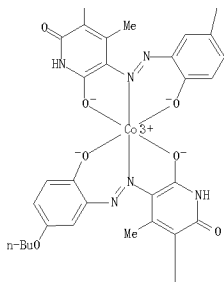


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OBu-n

L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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● Cl⁻

RN 100059-66-5 CAPLUS
CN Chromium(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[[2-hydroxy-5-(propylsulfonyl)phenyl]azo]-4'-nitro-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9Cl) (CA INDEX NAME)

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● Cl⁻

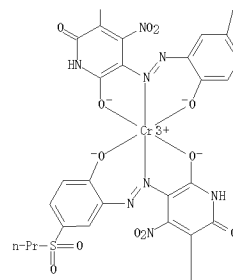
RN 100013-06-7 CAPLUS
CN Cobalt(1+), bis[5'-[(5-butoxy-2-hydroxyphenyl)azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9Cl) (CA INDEX NAME)

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L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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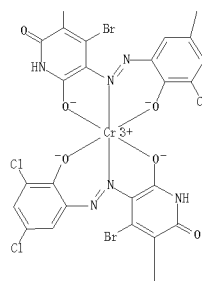
RN 100039-67-6 CAPLUS
 CN Chromium(1+), bis[4'-bromo-5'-[(3,5-dichloro-2-hydroxyphenyl)azo]-1',2'-dihydro-6'-hydroxy-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9Cl) (CA INDEX NAME)

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L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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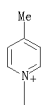
PAGE 3-A



IT 100039-65-4P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (preparation of, as dye for color electrophotog.)
 RN 100039-65-4 CAPLUS
 CN Chromium(1+), bis[5'-[(3-chloro-2-hydroxy-5-nitrophenyl)azo]-1',2'-dihydro-6'-hydroxy-1,4,4'-trimethyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9Cl) (CA INDEX NAME)

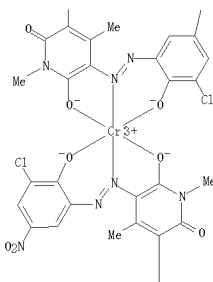
L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1985:624387 CAPLUS
DN 103:224387
OREF 103:36013a,36016a
TI Electrophotographic toner
PA Hodogaya Chemical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN CNT 1

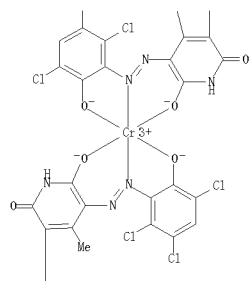
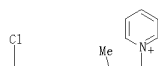
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60107655	A	19850613	JP 1983-215083	19831117
	JP 03002302	B	19910114		
PRAI	JP 1983-215083		19831117		
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB An electrophotog. toner contains, as a charge-controlling agent and a colorant, a 2:1 metal complex having the general structure I (R = H, Cl-4 alkyl or alkoxy, C2-5 alkoxy-carbonyl, acylamino, aminocarbonyl, aminosulfonyl, C2-5 alkylaminocarbonyl, Cl-3 alkylsulfonyl, NO₂, CN, halo; m = 1-4; R groups may not be identical to each other when m ≥ 2; R₁ = H, halo, CN, NO₂, Me, Et, Pr; R₂ = H, Cl-10 alkyl, (substituted) Ph; R₃ = H, Cl-4 alkyl, halo; M = Cr, Co; X = anion). These azo dyes have advantages in stability and durability over frequently used nigrosine dyes. Thus, II 2 and C black 10 parts were mixed with Bu methacrylate-styrene copolymer 100 parts, kneaded, cooled, and pulverized to obtain a toner (15-25 μm). The toner 1 part was mixed an Fe powder 20 parts to give an electrophotog. developer showing an average charge capacity of 17.6 μC/g and producing good quality copies.

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99294-946-2 99294-947-3

L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
PAGE 3-A

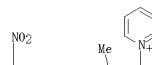


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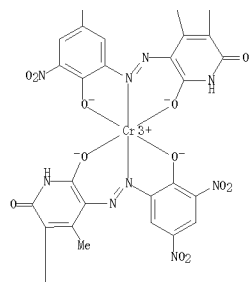


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CN Chromium(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-3,5-dinitrophenyl)azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, bromide (9CI) (CA INDEX NAME)

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L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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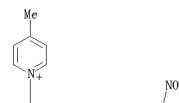
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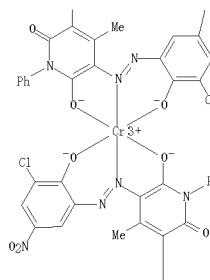
RN 99294-25-4 CAPLUS
CN Chromium(1+), bis[5'-[(3-chloro-2-hydroxy-5-nitrophenyl)azo]-1',2'-dihydro-6'-hydroxy-4,4'-dimethyl-2'-oxo-1-phenyl-1,3'-bipyridiniumato(2-)]-, perchlorate (9CI) (CA INDEX NAME)

CM 1
CRN 99294-24-3
CMF C48 H34 Cl2 Cr N10 O10
CCI CCS

L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2

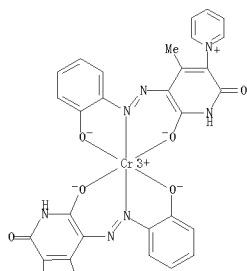
CRN 14797-73-0
CMF Cl 04

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CN Chromium(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[[2-hydroxyphenyl]azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)], nitrate (9CI) (CA INDEX NAME)

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CRN 99294-26-5
CMF C34 H26 Cr N8 O6
CCI CCS

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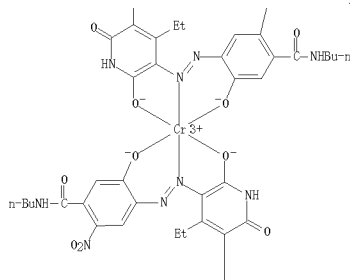


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L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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RN 99294-30-1 CAPLUS
CN Chromium(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[[2-hydroxy-4-(methoxycarbonyl)-5-nitrophenyl]azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)], perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 99294-29-8
CMF C38 H28 Cr N10 O14
CCI CCS

L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2

CRN 14797-55-8
CMF N 03

RN 99294-28-7 CAPLUS
CN Chromium(1+), bis[5'-[[4-[(butylamino)carbonyl]-2-hydroxy-5-nitrophenyl]azo]-4'-methyl-1',2'-dihydro-6'-hydroxy-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

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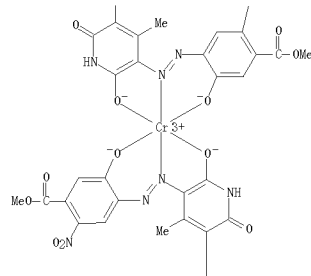


L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2
CRN 14797-73-0
CMF C1 04

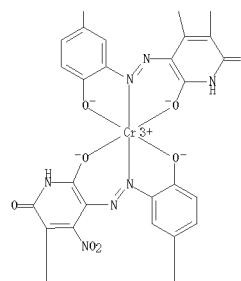


RN 99294-31-2 CAPLUS
CN Chromium(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-4'-nitro-2'-oxo-1,3'-bipyridiniumato(2-)]-, bromide (9C1) (CA INDEX NAME)

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L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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RN 99294-33-4 CAPLUS
CN Chromium(1+), bis[4'-cyano-1',2'-dihydro-6'-hydroxy-5'-[[2-hydroxy-5-nitrophenyl]azo]-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9C1) (CA INDEX NAME)

L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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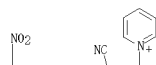
L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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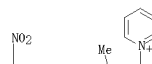
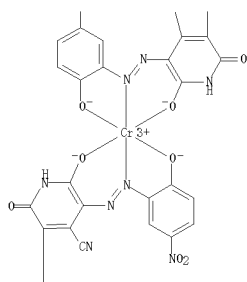


RN 99294-34-5 CAPLUS
CN Chromium(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[[2-hydroxy-4-methoxy-5-nitrophenyl]azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9C1) (CA INDEX NAME)

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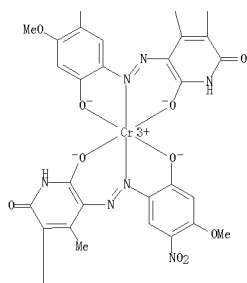


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L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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● Cl⁻

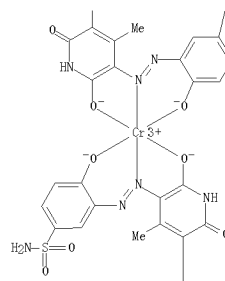
RN 99294-35-6 CAPLUS
 CN Chromium(1+), bis[5'-[[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]], chloride (9CI) (CA INDEX NAME)

L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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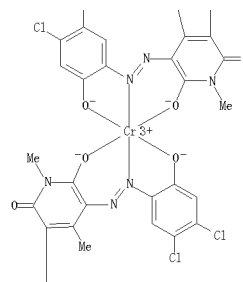
● Cl⁻

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L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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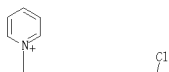


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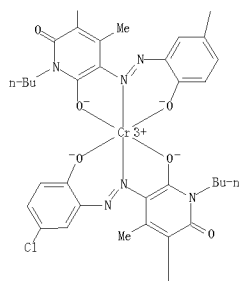
● I⁻

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 CN Chromium(1+), bis[1'-butyl-5'-[(5-chloro-2-hydroxyphenyl)azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]], chloride (9CI) (CA INDEX NAME)

L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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Cl



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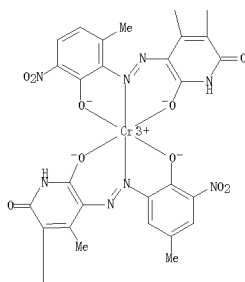
● Cl⁻

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CN Chromium(1+), bis[3-chloro-1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-5-methyl-3-nitrophenyl)azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9Cl) (CA INDEX NAME)

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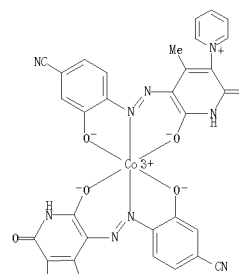


L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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● Cl⁻

RN 99300-88-6 CAPLUS
CN Cobalt(1+), bis[5'-[(4-cyano-2-hydroxyphenyl)azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9Cl) (CA INDEX NAME)

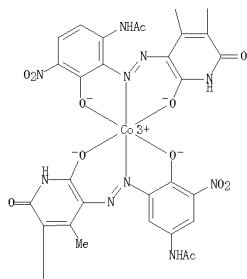
● Cl⁻

RN 99313-49-2 CAPLUS
CN Cobalt(1+), bis[5'-[[5-(acetylamino)-2-hydroxy-3-nitrophenyl]azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9Cl) (CA INDEX NAME)

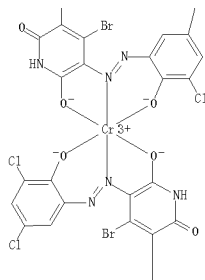
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L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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RN 100039-67-6 CAPLUS
CN Chromium(1+), bis[4'-bromo-5'-[(3,5-dichloro-2-hydroxyphenyl)azo]-1',2'-dihydro-6'-hydroxy-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

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L11 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1980:130698 CAPLUS
DN 92:130698
OREF 92:21297a, 21300a
TI Metalized azo dye
IN Eckersley, Dennis
PA Imperial Chemical Industries Ltd., UK
SO Brit. UK Pat. Appl., 25 pp.
CODEN: BAXXDU
DT Patent
LA English
FAN.CNT 1

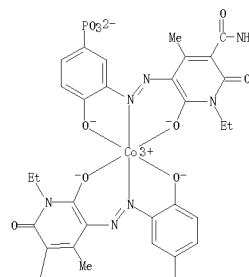
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI GB 2013229	A	19790808	GB 1978-36995	19780915
PRAI GB 1978-1636	A	19780116		

AB Sym. and unsym. 2:1 Cr or Co complex azo pyridone derivative dyes containing water-solubilizing phosphonic acid groups were manufactured and used to dye cellulosic fibers in conjunction with fixation by heating at 90-230° in the presence of a carbodiimide. Thus, 2-aminophenol 4-phosphonic acid [59785-86-3] was diazotized and coupled with 1-ethyl-2-carbamoyl-4-methyl-6-hydroxy-2-pyridone [230097-12-9] to give an azo dye [73052-70-7]. The precipitated dye was dissolved in aqueous NH₃ (pH 6.5-7.0) and treated with cobaltous acetate 8 h at 90-5°. The isolated 2:1 Co complex [73066-12-3], when applied to cellulosic textiles by the process described in UK Patent Number 1,141,306, gave yellow-brown shades of excellent wash and light fastness.

IT 73066-12-3
RL: MSC (Miscellaneous)
(dyes, for cellulosic fibers, manufacture of)

RN 73066-12-3 CAPLUS
CN Cobaltate(5-), bis[[3-[[[5-(aminocarbonyl)-1-ethyl-1,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl]azo]-4-hydroxyphenyl]phosphonato(4-)]-], pentahydrogen (9CI) (CA INDEX NAME)

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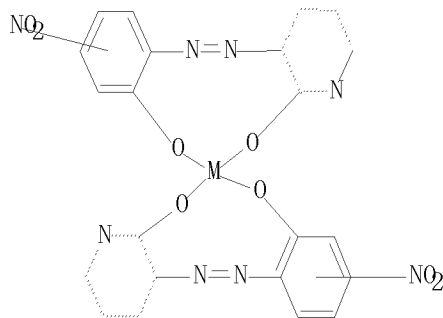


L11 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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● 5. H^+

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L13 STR



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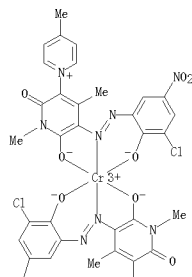
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L16 13 L15 AND CAPLUS/LC

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L17 12 L15 NOT L16

=> d 1-12 ide can

L17 ANSWER 1 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN
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 MF C38 H30 Cl2 Cr N10 O10
 CI CCS, COM
 SR CA

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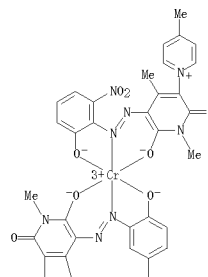


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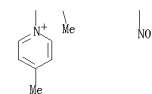


L17 ANSWER 2 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 785006-88-4 REGISTRY
 ED Entered STN: 19 Nov 2004
 CN Chromium(1+), bis[1-[1,2-dihydro-6-hydroxy-5-[(2-hydroxy-5-nitrophenyl)azo]-1,4-dimethyl-3-pyridinyl]-4-methylpyridiniumato(2-)]- (9CI) (CA INDEX NAME)
 MF C38 H32 Cr N10 O10
 CI CCS, COM
 SR CA

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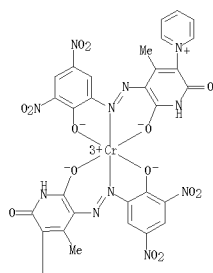


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L17 ANSWER 3 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 779996-70-2 REGISTRY
 ED Entered STN: 12 Nov 2004
 CN Chromium(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-3,5-dinitrophenyl)azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]- (9CI) (CA INDEX NAME)
 MF C34 H22 Cr N12 O14
 CI CCS, COM
 SR CA

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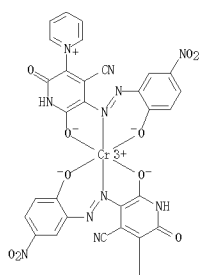


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L17 ANSWER 4 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 773807-55-9 REGISTRY
 ED Entered STN: 01 Nov 2004
 CN INDEX NAME NOT YET ASSIGNED
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 CI CCS, COM
 SR CA

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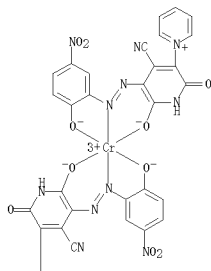


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L17 ANSWER 5 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN
RN 771434-29-8 REGISTRY
ED Entered STN: 28 Oct 2004
CN Chromium(1+), bis[4'-cyano-1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-5-nitrophenyl)azo]-2'-oxo-1,3'-bipyridiniumato(2-)]- (9CI) (CA INDEX NAME)
MF C34 H18 Cr N12 O10
CI CCS, COM
SR CA

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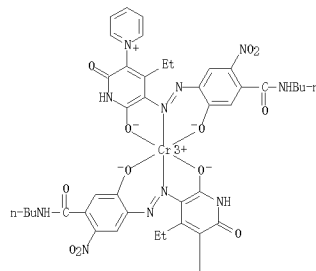


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L17 ANSWER 6 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN
RN 755711-98-9 REGISTRY
ED Entered STN: 01 Oct 2004
CN Chromium(1+), bis[5'-[[4-[(butylamino)carbonyl]-2-hydroxy-5-nitrophenyl)azo]-4'-ethyl-1',2'-dihydro-6'-hydroxy-2'-oxo-1,3'-bipyridiniumato(2-)]- (9CI) (CA INDEX NAME)
MF C46 H46 Cr N12 O12
CI CCS, COM
SR CA

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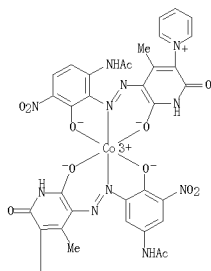


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L17 ANSWER 7 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN
RN 754144-51-9 REGISTRY
ED Entered STN: 29 Sep 2004
CN Cobalt(1+), bis[5'-[[5-(acetylamino)-2-hydroxy-3-nitrophenyl)azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]- (9CI) (CA INDEX NAME)
MF C38 H30 Co N12 O12
CI CCS, COM
SR CA

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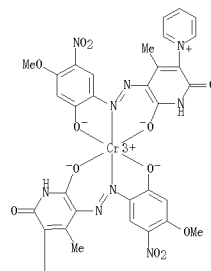


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L17 ANSWER 8 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN
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ED Entered STN: 24 Sep 2004
CN Chromium(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-4-methoxy-5-nitrophenyl)azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]- (9CI) (CA INDEX NAME)
MF C36 H28 Cr N10 O12
CI CCS, COM
SR CA

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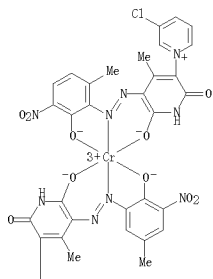


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L17 ANSWER 9 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 747368-17-8 REGISTRY
 ED Entered STN: 17 Sep 2004
 CN Chromium(1+), bis[3-chloro-1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-5-methyl-3-nitrophenyl)azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-(9CI) (CA INDEX NAME)
 MF C36 H26 Cl2 Cr N10 O10
 CI CCS, COM
 SR CA

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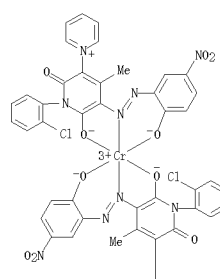


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L17 ANSWER 10 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 744160-21-2 REGISTRY
 ED Entered STN: 13 Sep 2004
 CN Chromium(1+), bis[1'-(2-chlorophenyl)-1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-5-nitrophenyl)azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-(9CI) (CA INDEX NAME)
 MF C46 H30 Cl2 Cr N10 O10
 CI CCS, COM
 SR CA

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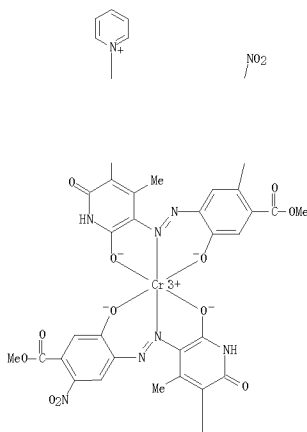


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L17 ANSWER 11 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 99294-29-8 REGISTRY
 ED Entered STN: 30 Nov 1985
 CN Chromium(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[[2-hydroxy-4-(methoxycarbonyl)-5-nitrophenyl]azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-(9CI) (CA INDEX NAME)
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 CN Pyridinium, 1-[1,2-dihydro-6-hydroxy-5'-[[2-hydroxy-4-(methoxycarbonyl)-5-nitrophenyl]azo]-4'-methyl-2'-oxo-3-pyridinyl]-, chromium complex
 MF C38 H28 Cr N10 O14
 CI CCS, COM
 SR CA

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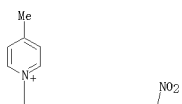
L17 ANSWER 11 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

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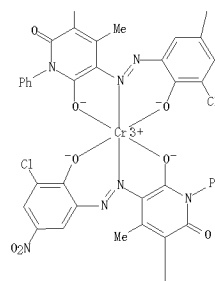
L17 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN
RN 99294-24-3 REGISTRY
ED Entered STN: 30 Nov 1985
CN Chromium(1+), bis[5'-[(3-chloro-2-hydroxy-5-nitrophenyl)azo]-1',2'-dihydro-6'-hydroxy-4,4'-dimethyl-2'-oxo-1'-phenyl-1,3'-bipyridiniumato(2-)]- (9Cl)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3'-Bipyridinium, 5'-[(3-chloro-2-hydroxy-5-nitrophenyl)azo]-1',2'-dihydro-6'-hydroxy-4,4'-dimethyl-2'-oxo-1'-phenyl-, chromium complex
MF C48 H54 Cl2 Cr N10 O10
CI CCS, COM
SR CA

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L17 ANSWER 12 OF 12 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

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FILE COVERS 1907 - 16 Dec 2008 VOL 149 ISS 25
FILE LAST UPDATED: 15 Dec 2008 (20081215/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

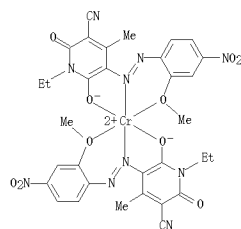
Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>
'FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

=> s l15
L18 3 L15

=> d 1-3 bib abs hitstr

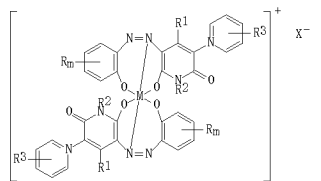
L18 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2003:792203 CAPLUS
 DN 141:32818
 TI Synthesis and absorption properties of some new azo-metal chelates and their ligands
 AU Song, Haifeng; Chen, Kongchang; Wu, Dongning; Tian, He
 CS Institute of Fine Chemicals, East China University of Science and Technology, Shanghai, 200237, Peop. Rep. China
 SO Dyes and Pigments (2003), Volume Date 2004, 60(2), 111-119
 CODEN: DYPIDX; ISSN: 0143-7208
 Elsevier Science Ltd.
 DT Journal
 LA English
 OS CASREACT 141:32818
 AB Azo-metal chelates ML2 (M = Ni, Cr, Co; HL = A-N-N-B; A and/or B = substituted thiazolyl-, thiadiazolyl, phenoxy-, hydroxypyridonyl-, naphthyl- and barbiturate) were synthesized. Their structures were confirmed by IR spectra, MS spectra and UV-visible spectra. Their solubility in 4-hydroxy-4-methyl-2-pentanone and absorption properties of films were measured. The influence on the difference of absorption maximum from azo-metal chelates to their ligands by diazo components, coupling components and metal ions was studied.
 IT 700814-43-3P
 RL: SYN (Synthetic preparation); PREP (Preparation)
 (preparation and absorption properties of azo-metal chelates)
 RN 700814-43-3 CAPLUS
 CN Chromium, bis[[1-ethyl-1,2-dihydro-6-(hydroxy- κ O)-5-[[2-(methoxy- κ O)-4-nitrophenyl]azo- κ Ni]-4-methyl-2-oxo-3-pyridinecarboxylate]-, (OC-6-22')- (9CI) (CA INDEX NAME)



RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1986:70282 CAPLUS
 DN 104:70282
 OREF 104:11245a,11248a
 TI Metal complex compounds
 PA Hosogaya Chemical Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKKXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

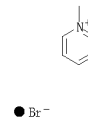
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60106859	A	19850612	JP 1983-212603	19831114
JP 04060945	B	19920817		
PRAI JP 1983-212603		19851114		
GI				



AB The metal complex compds. I [R = H, C1-10 alkyl, C1-4 alkoxy, C2-5 alkoxy-carbonyl, C2-5 acyl, aminocarbonyl, C2-5 alkylaminocarbonyl, C1-3 alkylsulfonyl, aminosulfonyl, C2-5 acylamino, NO₂, CN, halo, m = 1-4 (when m ≥ 2, R's may differ); R1 = H, halo, CN, NO₂, Me, Et, Pr; R2 = H, C1-10 alkyl, (substituted) Ph; R3 = H, C1-4 alkyl, halo; M = Cr, Co; X⁻ = anion], when used in electrophotog. developers, show excellent charge-controlling properties and, when used in coloring of fibers and plastics, show high fastness. Thus, 4-chloro-2-aminophenol was diazotized and coupled with N-(2-oxo-4-methyl-6-hydroxy-1,2-dihydropyridin-3-yl)pyridinium chloride to give the monoazo compound (II). It was dissolved in 150 parts Me Cellosolve, mixed with Na Cr salicylate, and stirred at 90-95° for 3 h to give I (R = 3-Cl; m = 1; R1 = Me; R2 = H; R3 = H; M = Cr; X = Cl), which was used in an electrophotog. composition comprising Bu methacrylate-styrene copolymer and carbon black, providing very bright images.
 IT 100012-96-2 100013-00-1
 RL: USES (Uses)
 (dye, for color electrophotog., preparation of)
 RN 100012-96-2 CAPLUS
 CN Chromium(1+), bis[[4'-cyano-1',2'-dihydro-6'-hydroxy-5'-[[2-(hydroxy-5-nitrophenyl)azo]-2'-oxo-1,3'-bipyridinimato(2-)]-], bromide (9CI) (CA INDEX NAME)

L18 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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L18 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 PAGE 3-A



• Br⁻

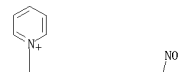
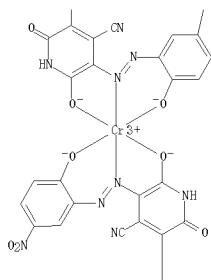
RN 100013-00-1 CAPLUS
 CN Chromium(1+), bis[[1'-(2-chlorophenyl)-1',2'-dihydro-6'-hydroxy-5'-[[2-(hydroxy-5-nitrophenyl)azo]-4'-methyl-2'-oxo-1,3'-bipyridinimato(2-)]-], chloride (9CI) (CA INDEX NAME)

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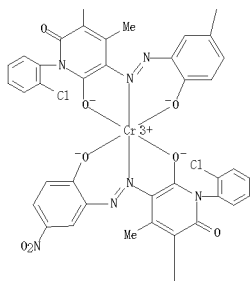
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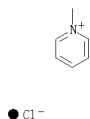
/NO₂

L18 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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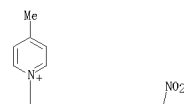
PAGE 3-A

● Cl⁻

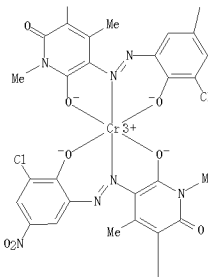
IT 100039-65-4P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of, as dye for color electrophotog.)
RN 100039-65-4 CAPLUS
CN Chromium(1+), bis[5'-[(3-chloro-2-hydroxy-5-nitrophenyl)azo]-1',2'-dihydro-6'-hydroxy-1,4,4'-trimethyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

L18 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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NO₂

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L18 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 3-A

● Cl⁻

L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1985:624387 CAPLUS
DN 103:224387
OREF 103:36013a,36016a
TI Electrophotographic toner
PA Hodogaya Chemical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN. CNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE
PI JP 60107655 A 19850613 JP 1983-215083 19831117
JP 03002302 B 19910114
PRAI JP 1983-215083 19851117
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB An electrophotog. toner contains, as a charge-controlling agent and a colorant, a 2:1 metal complex having the general structure I (R = H, Cl-4 alkyl or alkoxy, C2-5 alkoxy-carbonyl, acylamino, aminocarbonyl, aminosulfonyl, C2-6 alkylaminocarbonyl, Cl-3 alkylsulfonyl, NO₂, CN, halo; m = 1-4; R groups may not be identical to each other when m ≥ 2; R1 = H, halo, CN, NO₂, Me, Et, Pr; R2 = H, Cl-10 alkyl, (substituted) Ph; R3 = H, Cl-4 alkyl, halo; M = Cr, Co; X = anion). These azo dyes have advantages in stability and durability over frequently used nigrosine dyes. Thus, II 2 and C black 10 parts were mixed with Bu methacrylate-styrene copolymer 100 parts, kneaded, cooled, and pulverized to obtain a toner (15-25 μm). The toner 1 part was mixed an Fe powder 20 parts to give an electrophotog. developer showing an average charge capacity of 17.6 μC/g and producing good quality copies.

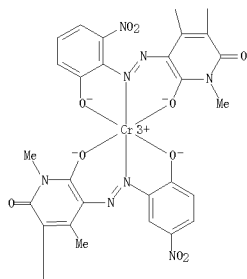
IT 99294-20-9 99294-23-2 99294-25-4
99294-28-7 99294-30-1 99294-33-4
99294-34-5 99294-37-5 99294-39-2
RL: TEM (Technical or engineered material use); USES (Uses)
(electrophotog. toners containing, for improved charge control and stability)

RN 99294-20-9 CAPLUS
CN Chromium(1+), bis[1-[1,2-dihydro-6-hydroxy-5-[(2-hydroxy-5-nitrophenyl)azo]-1,4-dimethyl-3-pyridinyl]-4-methylpyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

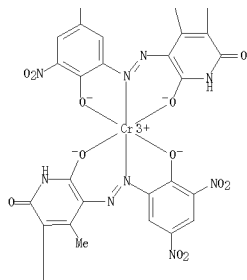
L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
PAGE 1-A



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L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
PAGE 2-A



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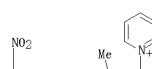
RN 99294-25-4 CAPLUS
CN Chromium(1+), bis[5'-[(3-chloro-2-hydroxy-5-nitrophenyl)azo]-1',2'-dihydro-6'-hydroxy-4,4'-dimethyl-2'-oxo-1-phenyl-1,3'-bipyridiniumato(2-)]-, perchlorate (9CI) (CA INDEX NAME)
CM 1
CRN 99294-24-3
CMF C48 H34 Cl2 Cr N10 O10
CCI CCS

L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
PAGE 3-A

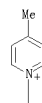


RN 99294-23-2 CAPLUS
CN Chromium(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-3,5-dinitrophenyl)azo]-4'-methyl-2'-oxo-1,5'-bipyridiniumato(2-)]-, bromide (9CI) (CA INDEX NAME)

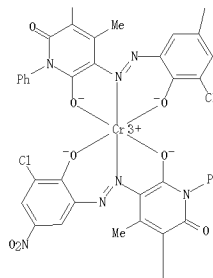
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L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2

CRN 14797-73-0
CMF Cl 04

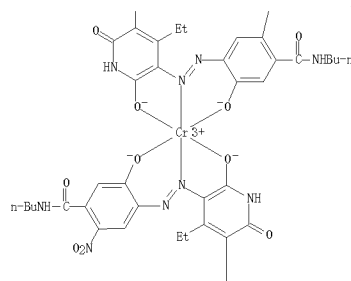
RN 99294-28-7 CAPLUS
CN Chromium(1+), bis[5'-[[4-[(butylamino)carbonyl]-2-hydroxy-5-nitrophenyl]azo]-4'-ethyl-1',2'-dihydro-6'-hydroxy-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9Cl) (CA INDEX NAME)

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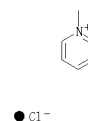


L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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RN 99294-30-1 CAPLUS
CN Chromium(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[[2-hydroxy-4-(methoxycarbonyl)-5-nitrophenyl]azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, perchlorate (9Cl) (CA INDEX NAME)

CM 1

CRN 99294-29-8
CMF C38 H28 Cr N10 O14
CCI CCS

L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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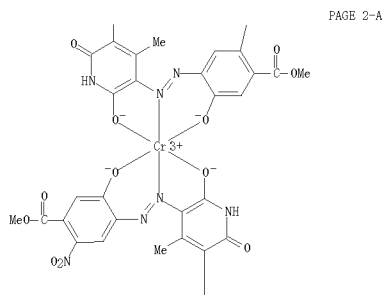
L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2

CRN 14797-73-0
CMF Cl 04

RN 99294-33-4 CAPLUS
CN Chromium(1+), bis[4'-cyano-1',2'-dihydro-6'-hydroxy-5'-[[2-hydroxy-5-nitrophenyl]azo]-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9Cl) (CA INDEX NAME)

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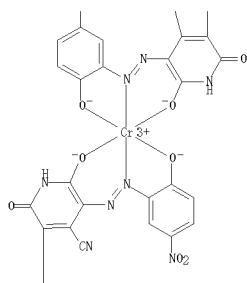


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L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

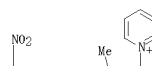
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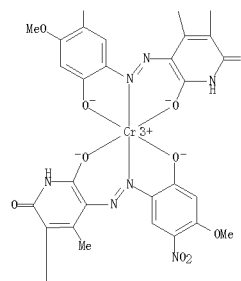
RN 99294-34-5 CAPLUS
 CN Chromium(1+), bis[1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-4-methoxy-5-nitrophenyl)azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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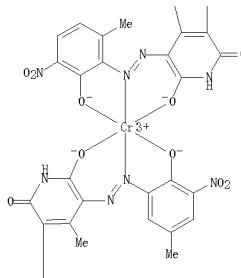


RN 99300-87-5 CAPLUS
 CN Chromium(1+), bis[3-chloro-1',2'-dihydro-6'-hydroxy-5'-[(2-hydroxy-5-methyl-3-nitrophenyl)azo]-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

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L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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RN 99313-49-2 CAPLUS
 CN Cobalt(1+), bis[5'-[[5-(acetilamino)-2-hydroxy-3-nitrophenyl]azo]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-1,3'-bipyridiniumato(2-)]-, chloride (9CI) (CA INDEX NAME)

L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

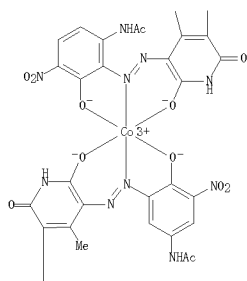
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L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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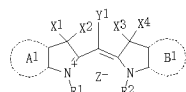
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L20	84	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	"KOYAMA YOSHINORI"/AU
L21	16	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	"NOGUCHI AYASHI"/AU
L22	122	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L19 OR L20 OR L21
L23	19	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L22 AND CYANINE

=> d 1-19 bib abs

L23 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2008:1073590 CAPLUS
 DN 149:334046
 TI Cyanine dyes for blue laser optical recording media
 IN Shoda, Hisashi; Uchida, Naoyuki; Furumoto, Shigeyuki; Aizawa, Yasushi; Dan-Oh, Yasufumi; Toki, Masahiko
 PA Mitsubishi Kagaku Media Co., Ltd., Japan; Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo
 SO PCT Int. Appl., 55pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2008105238	A1	20080904	WO 2008-JP52368	20080213
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LR, LS, LT, LU, LV, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
JP 2008239973	A	20081009	JP 2008-46678	20080227
PRAI JP 2007-49968	A	20070228		



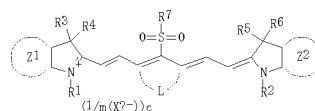
AB The present invention relates to cyanine dyes (I), wherein A1, B1 = independently (un)substituted aromatic ring (at least one aromatic ring of A1 and B1 contains a nitrogen atom); R1, R2 = independently substituent (R1 and/or R2 may be bonded with another cation); X1, X2, X3, X4 = independently organic group (X1 and X2 and/or X3 and X4 may combine together to form a ring structure); Y1 = H or organic group; and Z- = anion. Thus, 3.7 g 2,3-dihydro-1,3,3-trimethyl-2-methylene-1H-pyrrolo[2,3-b]pyridine and 5.8 g 2-[(hydroxyimino)methyl]-1,3,3-trimethyl-3H-indolium perchlorate were heated at 90° for 1 h to give a cyanine compound with decomposition point 255°, λ_{max} 424.5 nm, and absorption coefficient 3.74×10^5 at 424.5 nm.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:1469865 CAPLUS
 DN 148:109124
 TI Light-shielding agent containing cyanine dye
 IN Yano, Kentaro; Nagaike, Hiroshi; Ihara, Junichiro; Aizawa, Yasushi
 PA Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Japan
 SO PCT Int. Appl., 51pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2007148621	A1	20071227	WO 2007-JP62091	20070615
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI JP 2006-170274	A	20060620		
OS MARPAT 148:109124				
GI				

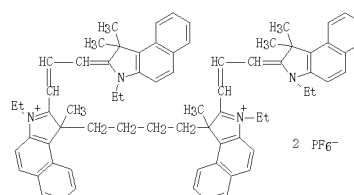


AB An object is to provide a light-shielding agent which can effectively intercept an undesirable artificial light (particularly, a near IR ray) emitted from an image display device in a front member of the image display device, which can also effectively intercept a near IR ray in natural light, and which is excellent in solubility in an organic solvent, light resistance and environment resistance, and also provide use of the light-shielding agent. Another object is to elongate the absorption wavelength of a cyanine dye and achieve a desirable absorption wavelength in the cyanine dye. Thus, disclosed is a light-shielding agent comprising a cyanine dye having a sulfonyl group at the meso-position represented by the general formula I (Z1 and Z2 = monocyclic or fused-cyclic aromatic or heterocyclic ring which may have substituent; R1-6 = aliphatic hydrocarbon group or aromatic hydrocarbon group which may have substituent, provided that R3 and R4 or R5 and R6 may together form 3- to 8-membered ring; R7 = hydrogen atom or substituent; L = group of atoms required for the formation of cyclic structure; Xn- = counter ion having valency of n; m = integer ranging from 1 to 3; and c = 0 or 1).

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD

L23 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:1062481 CAPLUS
 DN 147:567020
 TI Methine dyes with good light resistance, thermal stability, and solubility
 IN Dan-Oh, Yasufumi; Toki, Masahiko; Yano, Kentaro; Aizawa, Yasushi
 PA Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Japan
 SO PCT Int. Appl., 90pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2007105297	A1	20070920	WO 2006-JP304913	20060313
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
WO 2007105336	A1	20070920	WO 2006-JP322149	20061107
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI WO 2006-JP304913	A	20060313		
OS MARPAT 147:567020				
GI				



AB Title methine dyes useful for optical recording medium absorbing UV to IR

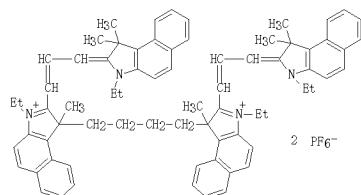
L23 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
range rays have a bisindolenine skeleton composed of two indolenine rings bonded together via the 3-position carbon atom of each of the indolenine rings by means of a divalent linkage group. Thus, 40 g 3,8-dimethyl-2,9-decanedione and 76.6 g 2-naphthalenyl-hydrazine were reacted in the presence of concd. HCl and neutralized with NaOH to give an indolenine compd., 12.5 g of which was reacted with 16.9 g Et p-toluenesulfonate, further reacted with 3-ethyl-1,1-dimethyl-2-[2-(phenylamino)ethenyl]-1H-benz[e]indolium p-toluenesulfonate, and treated with ammonium hexafluorophosphate to give a methine dye I, showing m.p. 252°, decompn. temp. 300°, λ_{max} 544 nm, absorption coeff. 1.94×10^5 , soly. 2.06% in 100 mL 2,2,3,3-tetrafluoro-1-propanol, good light resistance, and recording sensitivity and elec. characteristics when fabricated into an optical recording medium.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:1061140 CAPLUS
DN 147:387545
TI Methine dye with excellent lightfastness and solvent solubility for optical recording media
IN Dan-Oh, Yasufumi; Toki, Masahiko; Yano, Kentaro; Aizawa, Yasushi
PA Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Japan
SO PCT Int. Appl., 97pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2007105336	A1	20070920	WO 2006-JP322149	20061107
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BE, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
WO 2007105297	A1	20070920	WO 2006-JP304913	20060313
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BE, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
FRAI WO 2006-JP304913	A	20060313		
OS MARPAT 147:387545				
GI				

L23 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



AB The invention relates to a novel organic compound that absorbs light of UV to IR region, excelling in lightfastness and solvent solubility, and that has thermal properties corresponding to uses in which the same finds application; and uses of the novel organic compound. There are provided indolenine compds. each having a bisindolenine skeleton composed of two indolenine rings bonded to each other via 3-position carbon atoms of the individual indolenine rings by a bivalent linkage group, and provided relevant methine dyes and optical recording media comprising the methine dyes. Thus, 40 g 3,8-dimethyl-2,9-decanedione and 76.6 g 2-naphthalenyl-hydrazine were reacted in the presence of concentrated HCl and neutralized with NaOH to give an indolenine compound, 12.5 g of which was reacted with 16.9 g Et p-toluenesulfonate, further reacted with 3-ethyl-1,1-dimethyl-2-[2-(phenylamino)ethenyl]-1H-benz[e]indolium p-toluenesulfonate, and treated with ammonium hexafluorophosphate to give a methine dye I, showing m.p. 252°, decomposition temperature 300°, λ_{max} 544 nm, absorption coefficient 1.94×10^5 , solubility 2.06% in 100 mL 2,2,3,3-tetrafluoro-1-propanol, good light resistance, and recording sensitivity and elec. characteristics when fabricated into an optical recording medium.

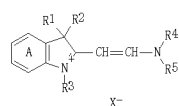
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:802395 CAPLUS
DN 147:517599
TI Two-color in vivo dynamic contrast-enhanced pharmacokinetic imaging
AU Hama, Yukihiko; Koyama, Yoshinori; Choyke, Peter L.; Kobayashi, Hisataka
CS National Cancer Institute, Center for Cancer Research, Molecular Imaging Program, NIH, Bethesda, MD, 20892-1068, USA
SO Journal of Biomedical Optics (2007), 12(3), 034016/1-034016/7
CODEN: JBOPPO; ISSN: 1083-3668
PB SPIE-The International Society for Optical Engineering
DT Journal
LA English
AB Optical imaging is unique among in vivo imaging methods because it is possible to simultaneously resolve two or more probes emitting at different wavelengths of light. We employed two near-IR (NIR) fluorescent optical probes, each labeled with a different protein, to simultaneously evaluate the pharmacokinetics of each probe. Dynamic optical imaging was performed in live mice after the coinjection of bovine serum albumin (BSA) and galactosamine-conjugated bovine serum albumin (GmSA) labeled with either Cy5.5 or Cy7 NIR dyes. The pharmacokinetics of BSA and GmSA were independently and simultaneously visualized. Next, two-color dynamic imaging of biotinylated BSA (b-BSA) and BSA labeled with Cy5.5 or Cy7 was performed before and after an avidin "chase." Following avidin injection, fluorescently labeled b-BSA rapidly accumulated in the liver, while minimal liver uptake of BSA was noted. Thus, multicolor dynamic contrast-enhanced optical imaging can be performed to noninvasively track the pharmacokinetics of different proteins. This imaging technique can be applied to a wide variety of optically labeled proteins in order to simultaneously track their biodistribution.

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:729009 CAPLUS
 DN 147:154077
 TI Optical recording medium and azacyanine dye
 IN Kurose, Yutaka; Miyazawa, Takashi; Kubo, Hideyuki; Uchida, Naoyuki;
 Furumoto, Shigeo; Satake, Kenichi; Shoda, Hisashi; Aizawa,
 Yasushi; Dan-Oh, Yasufumi; Toki, Masahiko
 PA Mitsubishi Kagaku Media Co., Ltd., Japan; Kabushiki Kaisha Hayashibara
 Seibutsu Kagaku Kenkyujo
 SO PCT Int. Appl., 61pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2007074861	A1	20070705	WO 2006-JP326031	20061227
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
JP 2007196661	A	20070809	JP 2006-174427	20060623
EP 1967378	A1	20080910	EP 2006-843413	20061227
R:	DE, GB			
PRAI JP 2005-375871	A	20051227		
JP 2006-174427	A	20060623		
WO 2006-JP326031	W	20061227		
OS MARPAT 147:154077				
GI				



I

AB Disclosed is an optical recording medium (e.g., optical disk) capable of recording/reproducing high-d. optical information by using a short wavelength light such as a blue laser. The optical recording medium comprises a substrate and a recording layer which is formed on the substrate and capable of recording or reproducing information by irradiation of light. The recording layer contains an azacyanine dye I [R1, R2 = H, (un)substituted C1-4 alkyl; R1 and R2 may combine together to form a ring structure; R3 = H, hydrocarbon group; R4 = H, C1-4 alkyl; R5 =

L23 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:640779 CAPLUS
 DN 147:82953
 TI Light shielding agent for plasma display panels
 IN Yano, Kentaro; Ito, Michie; Ihara, Junichiro; Aizawa, Yasushi
 PA Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Japan
 SO PCT Int. Appl., 43pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

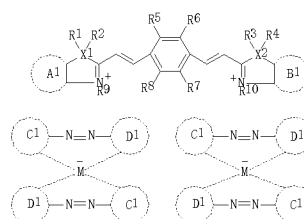
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 200706664	A1	20070614	WO 2006-JP324276	20061205
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
JP 2005-355963	A	20051209		
OS MARPAT 147:82953				
AB				

It is possible to provide a light shielding agent capable of effectively shielding near IR ray irradiated from a video display device in a video display device front member and having an excellent light resistance and heat resistance, and a use of the agent. This is achieved by providing a light shielding agent containing a particular cyanine pigment and a video display device front member using the light shielding agent.
 RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 (un)substituted arom. ring group or unsatd. heterocyclic group; R4 and R5 may combine together to form a ring structure; X⁻ = counter anion; the benzene ring A may be substituted].
 RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:504704 CAPLUS
 DN 146:510490
 TI Optical recording material and azo-cyanine dye for it
 IN Kawano, Satoshi; Kubo, Hideyuki; Aizawa, Yasushi; Danno, Yasufumi
 PA Mitsubishi Chemical Media Co., Ltd., Japan; Hayashibara Biochemical Laboratories, Inc.
 SO Jpn. Kokai Tokkyo Koho, 39pp.
 CODEN: JKKXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2007111887	A	20070510	JP 2005-302870	20051018
PRAI JP 2005-302870				
OS MARPAT 146:510490				
GI				



I

AB The dye I (R1-8 = H, substituent; R9-10 = aliphatic group which may be substituted; R1-2 = C, O, N, S; A1, B1 = aromatic group which may be substituted; a1 of C1 and D1 is heterocycle; M = transition metal) comprises a cationic part of cyanine dye having bisstyryl group and an anionic part of azo-metal complex. The material contains the dye and recorded and read by 300-500 nm wavelength light. The material shows high sensitivity, durability and rapid recording using short wavelength laser beam.

L23 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:1226942 CAPLUS
 DN 145:507110
 TI Cyanine colorants with good lightfastness, solubility, and heat characteristics for optical recording media
 IN Aizawa, Yasushi; Ito, Michie; Dan-Oh, Yasufumi; Yano, Kentaro; Shoda, Hisashi; Satake, Kenichi; Uchida, Naoyuki
 PA Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Japan
 SO PCT Int. Appl., 50pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006123786	A1	20061123	WO 2006-JP310051	20060519
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, RG, KZ, MD, RU, TJ, TM				
EP 1897915	A1	20080312	EP 2006-746658	20060519
R: DE, GB				
IN 2007CN05270	A	20080125	IN 2007-CN5270	20071120
CN 101193985	A	20080604	CN 2006-80020087	20071206
PRAI JP 2005-147544	A	20050620		
WO 2006-JP310051	W	20060519		
OS MARPAT 145:507110				
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title cyanine compds. I which absorb short-wavelength visible light can be used as a light absorbing material in a wide variety of applications including information recording, solar power generation, elec. machineries and apparatus, elec. communication equipment, optical equipment, clothing materials, building and bedding products, healthy and hygienic goods, and agricultural materials, particularly optical recording media, wherein R₁, R₂, R₃, R₄, R₅, R₆ = (un)substituted hydrocarbon; R₇, R₈ = H or substituent; and X = transition metal (Group 5-Group 12) complex. Thus, 1.8 g a compound II and 2.6 g a compound III were refluxed in acetic anhydride, 0.7 g of the resulting compound was reacted with 0.9 g a metal azo complex to give a cyanine colorant IV, showing m.p. 190°, decomposition temperature 250°, λ_{max} 469 nm (extinction coefficient 8.62 × 10⁴), and good solubility in organic solvents and light resistance.

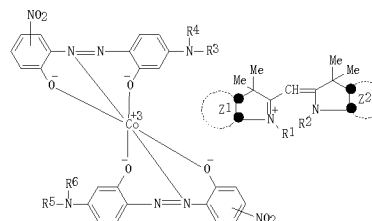
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 being selected as a light absorbing material in the above-mentioned fields.

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:1075866 CAPLUS
 DN 143:348676
 TI Light-resistant cyanine pigment
 IN Aizawa, Yasushi; Koyama, Yoshinori; Noguchi, Ayashi
 PA Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Japan
 SO PCT Int. Appl., 22 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005092988	A1	20051006	WO 2005-JPE191	20050323
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BF, BG, BR, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI JP 2004-91178	A	20040326		
OS MARPAT 143:348676				
GI				



AB A cyanine pigment I [Z₁, Z₂ = (un)substituted monocyclic aromatic ring; Z₂ = monocyclic or fused polycyclic aromatic ring; R₁, R₂ = (un)substituted aliphatic hydrocarbyl] exhibits a main local maximum in the absorption spectrum thereof at a wave length longer than 400 nm, in the state of a liquid. The cyanine pigment absorbs a visible light having a short wave length, is excellent in the resistance to a light and the solubility to a solvent, and, also has thermal characteristics meeting requirements of new fields wherein organic pigment compds. are applied, which results in the expansion of the width of organic pigment compds. capable of

L23 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:979709 CAPLUS
 DN 143:268290
 TI Short visible light absorbing cyanine dyes with good light resistance and solubility
 IN Aizawa, Yasushi; Koyama, Yoshinori; Noguchi, Ayashi
 PA Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Japan
 SO PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

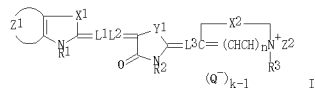
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005083011	A1	20050909	WO 2005-JP2978	20050224
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BF, BG, BR, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1734085	A1	20061220	EP 2005-710629	20050224
R: DE, GB				
CN 1934198	A	20070321	CN 2005-80008684	20050224
KR 2007015132	A	20070201	KR 2006-717173	20060825
IN 2006CN03552	A	20070622	IN 2006-CN5552	20060926
US 2006000004	A1	20080103	US 2007-590895	20070613
PRAI JP 2004-53528	A	20040227		
JP 2004-63296	A	20040308		
JP 2004-173653	A	20040611		
WO 2005-JP2978	W	20050224		
OS MARPAT 143:268290				
AB				

Title cyanine dyes have a specific structure and exhibit the primary local maximum of absorption in the region of a wavelength ≥400 nm in the state of a solution. Thus, 2 g 2-[(1,3-dihydro-1,3,3-trimethyl-2H-2-ylidene)methyl]-1,3,3-trimethyl-5H-indolium perchlorate and 3.5 g triethylammonium bis[1-butyl-1,2-dihydro-6-(hydroxy-40)-5-[[2-(hydroxy-40)-5-nitrophenylazo-40]-4-methyl-2-oxo-3-pyridinecarboxylate(2-)]]-cobaltate were refluxed for 20 min in 20 mL acetonitrile, removed solvent, ethanol was added therein and refluxed for 30 min to give a cyanine dye with absorption maximum 447 nm, good solubility in various solvents, decomposition temperature 245°, and good light resistance.

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:449678 CAPLUS
 DN 142:472671
 TI Write-once read-many optical disk containing rhoda-cyanine dye
 suited for short wavelength recording
 IN Sasa, Noboru; Kawada, Toshio; Aizawa, Yasushi
 PA Ricoh Co., Ltd., Japan; Hayashibara Biochemical Laboratories, Inc.
 SO Jpn. Kokai Tokkyo Koho, 23 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005131816	A	20050526	JP 2003-367627	20031028
JP 2003-367627		20031028		
MARPAT 142:472671				



AB The material comprises a support successively having a recording layer containing rhoda-cyanine dye I [X1-2 = O, S, Se, CH; CR4R5, NR6; Y1 = O, S, Se, NR7; R1, R3 = alkyl; R2 = alkyl, aryl, heterocycle; Z1 = atoms to form benzene, naphthalene, anthracene, phenanthrene ring; Z2 = atoms to form 5- or 6-membered ring; L1-3 = methine; R4-6 = alkyl; R6-7 = alkyl, aryl; Q = anion; k = 1, 2; n = 0-1] and a reflection layer, and the material is recorded by increasing the reflectivity of the recorded area using <500 nm light. The material may successively have a reflection layer, the recording layer, and a cover layer. The material has a recording layer containing I and an interference layer, and is recorded by decreasing the reflectivity of the recorded area using <500 nm light. The material may successively have an interference layer, the recording layer, and a cover layer. The material is recorded and read by shorter wavelength, especially by near 405 nm light.

L23 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:74159 CAPLUS
 DN 142:157828
 TI Near-IR light-absorbing cyanine dyes with good solubility and light stability
 IN Shimo, Akira; Takahashi, Yoshimi; Yano, Kentaro; Aizawa, Yasushi
 PA Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Japan
 SO PCT Int. Appl., 37 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005007753	A1	20050127	WO 2004-JP10334	20040721
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BF, BG, BR, CA, CH, CL, CN, CO, CR, CU, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
EP 1655347	A1	20060510	EP 2004-770844	20040721
R: AT, BE, BG, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
KR 2006056340	A	20060524	KR 2006-701415	20060120
US 20060189803	A1	20060824	US 2006-565592	20060123
JP 2003-277736	A	20030722		
WO 2004-JP10334	W	20040721		

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The dyes can be used as light absorbers, are obtained from dye compds. in which multiple cyanine dye skeletons bonded to each other through a bivalent group and an organometallic complex as a counter ion, where the cyanine dyes are capable of substantially absorbing light of wavelength larger than 700 nm. Thus, heating I with II in MeOH in the presence of Ac2O and Et3N at 65-70° for 30 min gave compound III. Mixing III with IV in acetonitrile and chloroform at 60° for 15 min gave a blue dye.
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2003:262100 CAPLUS
 DN 138:278500
 TI Solvent composition containing alcohols and organic dyes for manufacture of rewritable optical recording disk
 IN Ihara, Junichiro; Aizawa, Yasushi; Kawata, Toshio; Okazaki, Tsuneki
 PA Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Japan
 SO PCT Int. Appl., 47 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003028019	A1	20030403	WO 2002-JP9636	20020919
W: JP, KR				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR				
JP 2001-287234	A	20010920		
MARPAT 138:278500				

AB A solvent composition with which an organic-based optical recording medium capable of high-speed writing and meeting the CD-R standard or DVD-R standard can be produced at low cost. It comprises one or more fluorinated aliphatic alcs. and one or more nonfluorinated organic solvents. The solvent composition is useful for producing an optical recording medium employing an organic pigment compound, preferably an azo metal complex, formazan metal complex, cyanine dye, azo dye, phthalocyanine dye, or porphyrin dye.

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2002:487688 CAPLUS
 DN 137:70549
 TI Light absorbing agent containing polymethine-based dye and formazan metal complex
 IN Koyama, Yoshinori; Aizawa, Yasushi; Kawata, Toshio; Yasui, Shigeo
 PA Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Japan
 SO PCT Int. Appl., 54 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002050210	A1	20020627	WO 2001-JP11107	20011218
W: JP, KR, US				
RW: AT, BE, BG, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
EP 1347030	A1	20030924	EP 2001-271421	20011218
R: AT, BE, BG, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
TW 593642	B	20040621	TW 2001-90131392	20011218
JP 4173735	B2	20081029	JP 2002-552092	20011218
US 20030064322	A1	20030403	US 2002-220035	20020827
JP 2000-385772	A	20001219		
JP 2001-287233	A	20010920		
WO 2001-JP11107	W	20011218		
MARPAT 137:70549				

AB A light absorbing agent comprises a first polymethine coloring matter having a monomethine chain or a polymethine chain within the mol. thereof and an organic metal complex anion as a gegen ion, a second polymethine coloring matter having a monomethine chain or a polymethine chain within the mol. thereof and an anion other than an organic metal complex anion as a gegen ion, and a formazan metal complex. An optical recording medium using the light absorbing agent and a method for preparing the optical recording medium are also claimed. The light absorbing agent exhibits excellent elec. characteristics when used in an organic optical recording medium.

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2002:31082 CAPLUS

DN 136:87233

TI Styryl dyes, their production and their use
 IN Kasada, Chiaki; Koyama, Yoshinori; Kawata, Toshio; Yasui, Shigeo
 PA Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Japan
 SO Bur. Pat. Appl., 38 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1170339	A2	20020109	EP 2001-305760	20010704
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002206061	A	20020726	JP 2001-126671	20010424
TW 255841	B	20060601	TW 2001-90113248	20010531
US 20020028918	A1	20020307	US 2001-898322	20010705
PRAI JP 2000-203873	A	20000705		
JP 2000-342427	A	20001109		
JP 2001-136671	A	20010424		

MARPAT 136:87233

AB Disclosed are novel styryl dyes, and light absorbents, light-resistance improvers, and optical recording media, which comprise the styryl dyes. The dyes have satisfactory solubilities in 2,2,3,3-tetrafluoro-1-propanol at 20° and relatively high light resistance when used in high-d. optical recording media. The dye comps. are prepared from cationic indolium styryl dyes and anionic azo dye-metal complexes.

L23 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2001:453176 CAPLUS

DN 135:68646

TI Organic cyanine dye for optical disk
 IN Kasada, Chiaki; Aizawa, Yasushi; Kawata, Toshio; Yasui, Shigeo
 PA Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Japan
 SO PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001044374	A1	20010621	WO 2000-JP8297	20001124
W: JP, KR, US, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
EP 1178083	A1	20020206	EP 2000-977918	20001124
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
EP 1429324	A1	20040616	EP 2004-75515	20001124
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
TW 270565	B	20070111	TW 2000-89126268	20001208
US 6683188	B1	20040127	US 2001-913730	20010817
US 20030181727	A1	20030925	US 2003-438839	20030516
US 7402375	B2	20060722		
PRAI JP 1999-358949	A	19991217		
EP 2000-977918	A3	20001124		
WO 2000-JP8297	W	20001124		
US 2001-913730	A3	20010817		

AB The invention relates to an organic mono-methine cyanide dye compound having the absorption maximum in the UV/visible regions and the use thereof for an optical disk and a process for producing the mono-methine cyanine dye via the step of reacting a quaternary ammonium salt of a nitrogen-containing heterocyclic compound having an active Me group with a quaternary ammonium salt of a nitrogen-containing heterocyclic compound having an appropriate leaving group. The organic cyanide dye is suitable for use in optical disks with <450 nm laser.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1992:140205 CAPLUS

DN 116:140205

OREF 116:23515a,23518a

TI Optical recording medium
 IN Yanagisawa, Shuichi; Sakai, Tatsuro; Matsui, Fumio; Okazaki, Tsunekii; Noguchi, Ayashi

PA Pioneer Electronic Corp., Japan

SO Ger. Offen., 7 pp.

CODEN: GWXXBX

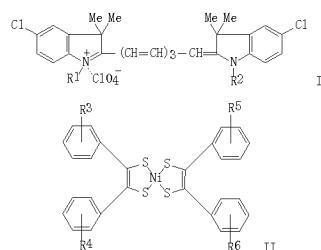
DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 4027173	A1	19910704	DE 1990-4027173	19900828
JP 03203692	A	19910905	JP 1989-341641	19891229
US 5155009	A	19921013	US 1990-570443	19900821
PRAI JP 1989-341641	A	19891229		
OS MARPAT 116:140205				

GI



AB The material comprises a recording layer containing a cyanine dye I [R1,R2 = C3-6 alkyl] and a quenching agent II [R3-R6 = H, substituent]. The material has high productivity and improved recording/reproduction properties.

L23 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1986:625870 CAPLUS

DN 105:225870

OREF 105:36455a,36458a

TI Higher alkyl derivatives of 7,7,8,8-tetracyanoquinodimethane.
 IN Suga, Sadaharu; Noruchi, Ayashi; Yasui, Shigeo
 PA Matsushita Electric Industrial Co., Ltd., Japan
 SO Bur. Pat. Appl., 7 pp.

CODEN: EPXXDW

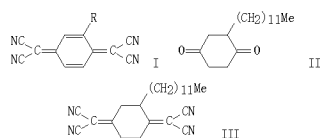
DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 193362	A1	19860903	EP 1986-301250	19860221
EP 193362	B1	19890920		
R: DE, FR, GB				
JP 61194059	A	19860828	JP 1985-35042	19850223
JP 02013661	B	19900404		
US 4758381	A	19880719	US 1986-833862	19860224
PRAI JP 1985-35042	A	19850223		
OS CASREACT 105:225870; MARPAT 105:225870				

GI



AB TCNQ derivs. I (R = C10 alkyl) were prepared for use in elec. conductivity Langmuir-Blodgett monomol. films. Thus, Birch reduction of 2,5-(MeO)2C6H3(CH2)11Me, followed by hydrolysis, gave dodecylcyclohexanediene II, which was condensed with H2C(CN)2 to give bis(dicyanomethylene)cyclohexane III. III was brominated and dehydrobrominated in situ with pyridine to give I [R = (CH2)11Me] (IV). I [R = (CH2)14Me, (CH2)17Me] were prepared from the corresponding hydroquinones via aromatic hydrogenation, chlorochromate oxidation, etc. A solution of IV in CHCl3 (10-4M), alone or in solution with arachidic acid, was dropped onto aqueous CdCl2-KHCO3 at pH 5.5 to give a good monomol. film.

=> d 123 11 all

L23 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:979709 CAPLUS
 DN 143:268290
 ED Entered STN: 08 Sep 2005
 TI Short visible light absorbing cyanine dyes with good light resistance and solubility
 IN Aizawa, Yasushi; Koyama, Yoshinori; Noguchi, Ayashi
 PA Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Japan
 SO PCT Int. Appl., 25 pp.
 COEN: PIXXD2
 DT Patent
 LA Japanese
 IC ICM C09B069-02
 ICS C09B023-00; C09B045-14; C09B045-20
 CC 41-8 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005083011	A1	20050909	WO 2005-JP2978	20050224
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BF, BG, BR, BU, BY, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
EP 1734085	A1	20061220	EP 2005-710629	20050224
R: DE, GB				
CN 1934198	A	20070321	CN 2005-80008684	20050224
KR 2007015132	A	20070201	KR 2006-717173	20060825
IN 2006CN03552	A	20070622	IN 2006-CN3552	20060926
US 20080000034	A1	20080103	US 2007-590896	20070613
PRAI JP 2004-53528	A	20040227		
JP 2004-65296	A	20040308		
JP 2004-173653	A	20040611		
WO 2005-JP2978	W	20050224		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2005083011	ICM	C09B069-02
	ICS	C09B023-00; C09B045-14; C09B045-20
	IPCI	C09B0069-02 [ICM, 7]; C09B0069-00 [ICM, 7, C*]; C09B0023-00 [ICS, 7]; C09B0045-14 [ICS, 7]; C09B0045-20 [ICS, 7]; C09B0045-00 [ICS, 7, C*]; C09B0023-00 [I, C*]; C09B0023-00 [I, A]; C09B0045-00 [I, C*]; C09B0045-14 [I, A]; C09B0045-20 [I, A]; C09B0069-00 [I, C*]; C09B0069-02 [I, A]
EP 1734085	BCLA	C09B069/02
	IPCI	C09B0069-02 [I, A]; C09B0069-00 [I, C*]; C09B0023-00 [I, A]; C09B0045-14 [I, A]; C09B0045-20 [I, A]; C09B0045-00 [I, C*]; C09B0069-00 [I, C]; C09B0069-02 [I, A]; C09B0023-00 [I, C]; C09B0023-00 [I, A]; C09B0045-00 [I, C]; C09B0045-14 [I, A]; C09B0045-20 [I, A]
	BCLA	C09B069/02

L23 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 (8) Tdk Corp; US 6168843 B1 1998
 (9) Tdk Corp; EP 887202 A1 1998 CAPLUS
 (10) Tdk Corp; WO 9829257 A1 1998 CAPLUS

L23 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 CN 1934198 IPCI C09B0069-02 [I, A]; C09B0069-00 [I, C*]; C09B0023-00 [I, A]; C09B0045-14 [I, A]; C09B0045-20 [I, A]; C09B0045-00 [I, C*]
 KR 2007015132 IPCR C09B0069-00 [I, C]; C09B0069-02 [I, A]
 IPCI C09B0069-02 [I, A]; C09B0069-00 [I, C*]; C09B0023-00 [I, A]; C09B0045-14 [I, A]; C09B0045-20 [I, A]; C09B0045-00 [I, C*]
 IN 2006CN03552 IPCI C09B0023-00 [ICM, 7]
 US 20080000034 IPCI C09B0069-02 [I, A]; C09B0069-00 [I, C*]; C09B0023-00 [I, A]; C09B0045-14 [I, A]; C09B0045-20 [I, A]; C09B0045-00 [I, C*]
 NCL 008/655,000
 OS MARPAT 143:268290
 AB Title cyanine dyes have a specific structure and exhibit the primary local maximum of absorption in the region of a wavelength ≥ 400 nm in the state of a solution. Thus, 2 g 2-[(1,3-dihydro-1,3,3-trimethyl-2H-2-ylidene)methyl]-1,3,3-trimethyl-3H-indolium perchlorate and 3.5 g triethylammonium bis[1-butyl-1,2-dihydro-6-(hydroxy- κ O)-5-[[2-(hydroxy- κ O)-5-nitrophenyl]azo- κ N]]-4-methyl-2-oxo-3-pyridinecarboxylato(2-)]-cobaltate were refluxed for 20 min in 20 mL acetonitrile, removed solvent, ethanol was added therein and refluxed for 30 min to give a cyanine dye with absorption maximum 447 nm, good solubility in various solvents, decomposition temperature 245° , and good light resistance. short visible absorbing cyanine dye light resistance only; dihydrotrimethyllydenemethyltrimethylindolium perchlorate reactant; triethylammonium bisbutyldihydroxynitrophenylazomethyloxopyridinecarbonitrilato cobaltate reactant
 IT Unsaturated compounds
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (cyanines; short visible light absorbing cyanine dyes with good light resistance and solubility)
 IT Dyes
 (short visible light absorbing cyanine dyes with good light resistance and solubility)
 IT 330442-50-7P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (short visible light absorbing cyanine dyes with good light resistance and solubility)
 IT 103998-41-0 419581-80-9 863962-11-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (short visible light absorbing cyanine dyes with good light resistance and solubility)

RE CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD

- RE
- (1) Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo; WO 0144374 A1 2001 CAPLUS
 - (2) Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo; EP 1178063 A1 2001 CAPLUS
 - (3) Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo; EP 1429324 A1 2001 CAPLUS
 - (4) Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo; US 2003181727 A1 2001 CAPLUS
 - (5) Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo; WO 0250210 A1 2002 CAPLUS
 - (6) Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo; EP 1347030 A1 2002 CAPLUS
 - (7) Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo; US 200364322 A1 2002 CAPLUS

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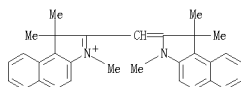
<http://www.cas.org/support/stngen/stndoc/properties.html>

=> s el-e4

L24 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 863962-11-2 REGISTRY
 ED Entered STN: 26 Sep 2005
 CN 1H-Benz[e]indolium, 2-[(1,3-dihydro-1,1,3-trimethyl-2H-benz[e]indol-2-ylidene)methyl]-1,1,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1H-Benz[e]indolium, 2-[(1,3-dihydro-1,1,3-trimethyl-2H-benz[e]indol-2-ylidene)methyl]-1,1,3-trimethyl-, perchlorate (9CI)
 MF C31 H31 N2 . Cl 04
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

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CRN 157075-00-8
 CMF C31 H31 N2



CM 2

CRN 14797-73-0
 CMF Cl 04



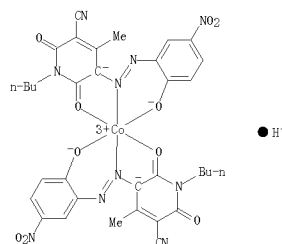
1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:268290

L24 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 419581-80-9 REGISTRY
 ED Entered STN: 21 May 2002
 CN Cobaltate(1-), bis[1-butyl-1,2,5,6-tetrahydro-5-[2-(2-(hydroxy-κO)-5-nitrophenyl]diazenvil-κN)]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]-, hydrogen, compd. with N,N-diethylethanamine (1:1:1) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Cobaltate(1-), bis[1-butyl-1,2,5,6-tetrahydro-5-[2-(2-(hydroxy-κO)-5-nitrophenyl]azo-κN)]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]-, hydrogen, compd. with N,N-diethylethanamine (1:1:1) (9CI)
 DR 356062-82-3
 MF C34 H50 Co N10 O10 . C6 H15 N . H
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

CM 1

CRN 419581-79-6 (330442-50-7)
 CMF C34 H50 Co N10 O10 . H
 CCI CCS



CM 2

CRN 121-44-8
 CMF C6 H15 N



12 REFERENCES IN FILE CA (1907 TO DATE)
 13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 149:473007

L24 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)
 REFERENCE 2: 149:334046

REFERENCE 3: 148:21184

REFERENCE 4: 146:510490

REFERENCE 5: 145:507110

REFERENCE 6: 144:275709

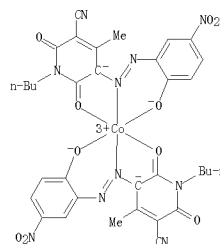
REFERENCE 7: 143:396410

REFERENCE 8: 143:396409

REFERENCE 9: 143:268290

REFERENCE 10: 139:330072

L24 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 330442-50-7 REGISTRY
 ED Entered STN: 06 Apr 2001
 CN Cobaltate(1-), bis[1-butyl-1,2,5,6-tetrahydro-5-[2-(2-(hydroxy-κO)-5-nitrophenyl]azo-κN)]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]- (9CI) (CA INDEX NAME)
 DR 439556-23-7
 MF C34 H50 Co N10 O10
 CI CCS, COM
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



6 REFERENCES IN FILE CA (1907 TO DATE)
 6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 148:101980

REFERENCE 2: 147:450514

REFERENCE 3: 145:429506

REFERENCE 4: 144:255679

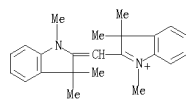
REFERENCE 5: 144:193780

REFERENCE 6: 143:268290

L24 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 100998-41-0 REGISTRY
 ED Entered STN: 30 Aug 1986
 CN 3H-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-
 1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 3H-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-
 1,3,3-trimethyl-, perchlorate (9CI)
 OTHER NAMES:
 CN NK 3212
 MF C23 H27 N2 . C1 04
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 61575-70-0
 CMF C23 H27 N2



CM 2

CRN 14797-73-0
 CMF C1 04



21 REFERENCES IN FILE CA (1907 TO DATE)
 21 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 149:366321
 REFERENCE 2: 148:366632
 REFERENCE 3: 148:366631
 REFERENCE 4: 145:219601
 REFERENCE 5: 145:178784
 REFERENCE 6: 143:396410
 REFERENCE 7: 143:396409
 REFERENCE 8: 143:348676

L24 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

REFERENCE 9: 143:268290

REFERENCE 10: 142:472665

=> d his full

(FILE 'HOME' ENTERED AT 14:34:37 ON 16 DEC 2008)

FILE 'REGISTRY' ENTERED AT 14:34:59 ON 16 DEC 2008

L1 STRUCTURE UPLOADED
 D
 L2 STRUCTURE UPLOADED
 D
 L3 0 SEA SSS SAM L1 AND L2
 L4 0 SEA SSS FUL L1 AND L2
 L5 7 SEA SSS SAM L1
 L6 214 SEA SSS FUL L1
 L7 2 SEA SSS SAM L2
 D SCAN
 L8 81 SEA SSS FUL L2
 L*** DEL 0 S L6 AND L7
 L9 0 SEA ABB=ON PLU=ON L6 AND L8

FILE 'CAPLUS' ENTERED AT 14:42:19 ON 16 DEC 2008

L10 112 SEA ABB=ON PLU=ON L6
 L11 5 SEA ABB=ON PLU=ON L8
 L12 0 SEA ABB=ON PLU=ON L10 AND L11
 D L11 1-5 BIB ABS HITSTR

FILE 'REGISTRY' ENTERED AT 14:46:10 ON 16 DEC 2008

D L1
 D L2

FILE 'CAPLUS' ENTERED AT 14:47:08 ON 16 DEC 2008

D QUE L12 STAT
 D L11 1-5 IDE CAN

FILE 'HOME' ENTERED AT 14:47:54 ON 16 DEC 2008

FILE 'REGISTRY' ENTERED AT 14:49:30 ON 16 DEC 2008

L13 STRUCTURE UPLOADED
 D
 L14 1 SEA SSS SAM L13
 D SCAN
 L15 25 SEA SSS FUL L13
 D QUE L15 STAT
 L16 13 SEA ABB=ON PLU=ON L15 AND CAPLUS/LC
 L17 12 SEA ABB=ON PLU=ON L15 NOT L16
 D 1-12 IDE CAN

FILE 'CAPLUS' ENTERED AT 14:52:32 ON 16 DEC 2008

L18 3 SEA ABB=ON PLU=ON L15
 D 1-3 BIB ABS HITSTR
 E AIZAWA YASUSHI/AU
 L19 30 SEA ABB=ON PLU=ON "AIZAWA YASUSHI"/AU
 E KOYAMA YOSHINORI/AU
 L20 84 SEA ABB=ON PLU=ON "KOYAMA YOSHINORI"/AU
 E NOGUCHI AYASHI/AU
 L21 16 SEA ABB=ON PLU=ON "NOGUCHI AYASHI"/AU
 L22 122 SEA ABB=ON PLU=ON L19 OR L20 OR L21
 L23 19 SEA ABB=ON PLU=ON L22 AND CYANINE
 D QUE L23 STAT
 D 1-19 BIB ABS
 D L23 11 ALL

SEL L23 11 RN

L24 FILE 'REGISTRY' ENTERED AT 14:58:09 ON 16 DEC 2008
4 SEA ABB=ON PLU=ON (103998-41-0/BI OR 330442-50-7/BI OR
419581-80-9/BI OR 863962-11-2/BI)
D 1-4 IDE CAN

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 15 DEC 2008 HIGHEST RN 1084993-68-9
DICTIONARY FILE UPDATES: 15 DEC 2008 HIGHEST RN 1084993-68-9

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FILE CAPLUS

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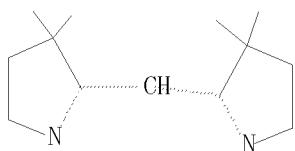
FILE COVERS 1907 - 16 Dec 2008 VOL 149 ISS 25
FILE LAST UPDATED: 15 Dec 2008 (20081215/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

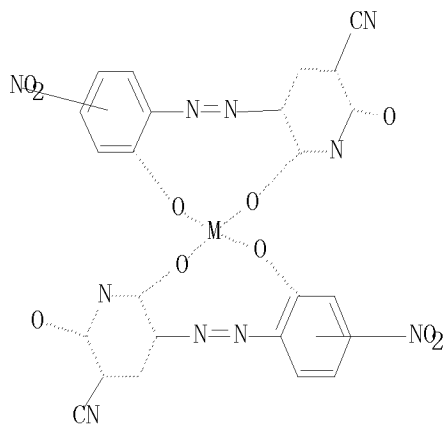
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<http://www.cas.org/legal/infopolicy.html>

=> => d que l28 stat
L1 STR



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 L25 STR



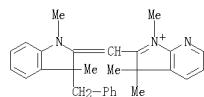
Structure attributes must be viewed using STN Express query preparation.
 L27 142 SEA FILE=REGISTRY SSS FUL L25
 L28 14 SEA FILE=REGISTRY ABB=ON PLU=ON L6 AND L27

=> d 1-14 ide can

L28 ANSWER 1 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1052689-87-8 REGISTRY
 ED Entered STN: 26 Sep 2008
 CN 3H-Pyrrolo[2,3-b]pyridinium, 2-[[1,3-dihydro-1,3-dimethyl-3-(phenylmethyl)-2H-indol-2-ylidene]methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[2-[2-(hydroxy- κ O)-5-nitrophenyl]diazanyl- κ N]]-4-methyl-2-oxo-6-(oxo- κ O)-3-pyridinecarbonitrilato(2-)]cobaltate(1-) (1:1) (CA INDEX NAME)
 MF C34 H30 Co N10 O10 . C28 H30 N3
 SR CA
 LC STN Files: CA, CAPLUS

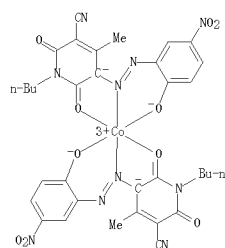
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CRN 1052689-84-5
 CMF C28 H30 N3



CM 2

CRN 330442-50-7
 CMF C34 H30 Co N10 O10
 CCI CCS



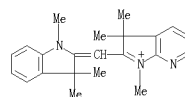
1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 149:334046

L28 ANSWER 2 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1052689-86-7 REGISTRY
 ED Entered STN: 26 Sep 2008
 CN 3H-Pyrrolo[2,3-b]pyridinium, 2-[[1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene]methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[2-[2-(hydroxy- κ O)-5-nitrophenyl]diazanyl- κ N]]-4-methyl-2-oxo-6-(oxo- κ O)-3-pyridinecarbonitrilato(2-)]cobaltate(1-) (1:1) (CA INDEX NAME)
 MF C34 H30 Co N10 O10 . C22 H26 N3
 SR CA
 LC STN Files: CA, CAPLUS

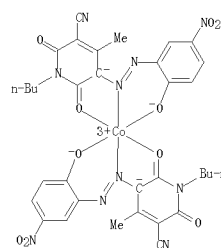
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CRN 1052689-82-3
 CMF C22 H26 N3



CM 2

CRN 330442-50-7
 CMF C34 H30 Co N10 O10
 CCI CCS



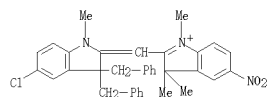
1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 149:334046

L28 ANSWER 3 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 952062-01-0 REGISTRY
 ED Entered STN: 30 Oct 2007
 CN 3H-Indolium, 2-[[5-chloro-1,3-dihydro-1-methyl-3,3-bis(phenylmethyl)-2H-indol-2-ylidene]methyl]-1,3,3-trimethyl-5-nitro-, bis[1-butyl-1,2,5,6-tetrahydro-5-[2-[2-(hydroxy- κ O)-5-nitrophenyl]diazanyl- κ N]]-4-methyl-2-oxo-6-(oxo- κ O)-3-pyridinecarbonitrilato(2-)]cobaltate(1-) (1:1) (CA INDEX NAME)
 MF C35 H33 Cl N3 O2 . C34 H30 Co N10 O10
 SR CA
 LC STN Files: CA, CAPLUS

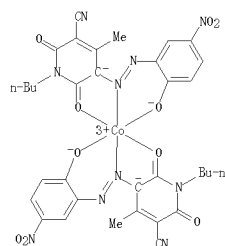
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CRN 952062-00-9
 CMF C35 H33 Cl N3 O2



CM 2

CRN 330442-50-7
 CMF C34 H30 Co N10 O10
 CCI CCS



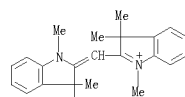
1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 147:450314

L28 ANSWER 4 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 952061-99-3 REGISTRY
 ED Entered STN: 30 Oct 2007
 CN 3H-Indolium, 2-[[1,3-dihydro-1,3-dimethyl-3-(2-propen-1-yl)-2H-indol-2-ylidene]methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[2-[2-(hydroxy- κ O)-5-nitrophenyl]diazanyl- κ N]]-4-methyl-2-oxo-6-(oxo- κ O)-3-pyridinecarbonitrilato(2-)]cobaltate(1-) (1:1) (CA INDEX NAME)
 MF C34 H30 Co N10 O10 . C25 H29 N2
 SR CA
 LC STN Files: CA, CAPLUS

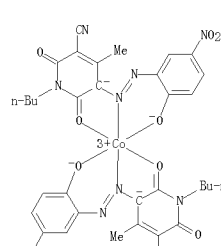
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CRN 952061-98-2
 CMF C25 H29 N2



CM 2

CRN 330442-50-7
 CMF C34 H30 Co N10 O10
 CCI CCS



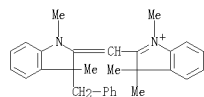
1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 147:450314

L28 ANSWER 5 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 915131-83-8 REGISTRY
 ED Entered STN: 11 Dec 2006
 CN 3H-Indolium, 2-[[[1,3-dihydro-1,3-dimethyl-3-(phenylmethyl)-2H-indol-2-ylidene]methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-6-[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]cobaltate(1-)] (9CI) (CA INDEX NAME)
 MF C34 H30 Co N10 O10 . C29 H31 N2
 SR CA
 LC STN Files: CA, CAPLUS

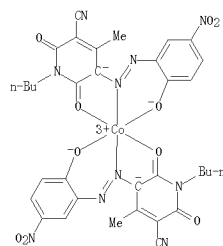
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CRN 915131-81-6
 CMF C29 H31 N2



CM 2

CRN 330442-50-7
 CMF C34 H30 Co N10 O10
 CCI CCS



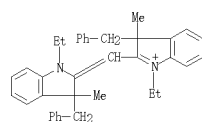
1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:507110

L28 ANSWER 6 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 915131-76-9 REGISTRY
 ED Entered STN: 11 Dec 2006
 CN 3H-Indolium, 1-ethyl-2-[[[1-ethyl-1,3-dihydro-3-methyl-3-(phenylmethyl)-2H-indol-2-ylidene]methyl]-3-methyl-3-(phenylmethyl)-, bis[1-butyl-1,2,5,6-tetrahydro-6-[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]cobaltate(1-)] (9CI) (CA INDEX NAME)
 MF C37 H39 N2 . C34 H30 Co N10 O10
 SR CA
 LC STN Files: CA, CAPLUS

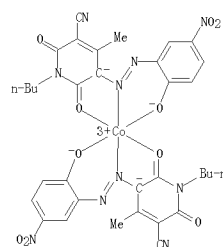
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CRN 915131-74-7
 CMF C37 H39 N2



CM 2

CRN 330442-50-7
 CMF C34 H30 Co N10 O10
 CCI CCS



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

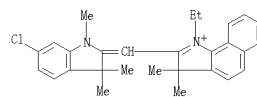
REFERENCE 1: 145:507110

L28 ANSWER 6 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

L28 ANSWER 7 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 866757-39-3 REGISTRY
 ED Entered STN: 04 Nov 2005
 CN 3H-Benz[*g*]indolium, 2-[(6-chloro-1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1-ethyl-3,3-dimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-6-[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]cobaltate(1-)] (9CI) (CA INDEX NAME)
 MF C34 H30 Co N10 O10 . C28 H30 Cl N2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

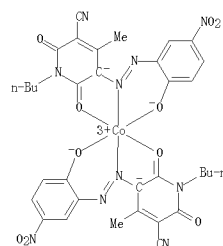
CM 1

CRN 866757-38-2
 CMF C28 H30 Cl N2



CM 2

CRN 330442-50-7
 CMF C34 H30 Co N10 O10
 CCI CCS



2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

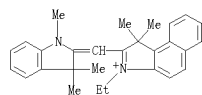
REFERENCE 1: 143:396410

REFERENCE 2: 143:396409

L28 ANSWER 8 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 866757-37-1 REGISTRY
 ED Entered STN: 04 Nov 2005
 CN 1H-Benz[e]indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-3-ethyl-1,1-dimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy- κ O)-5-nitrophenyl]azo- κ N1]-4-methyl-2-oxo-6-(oxo- κ O)-3-pyridinecarbonitrilato(2-)]cobaltate(1-) (9CI) (CA INDEX NAME)
 MF C34 H50 Co N10 O10 . C28 H31 N2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

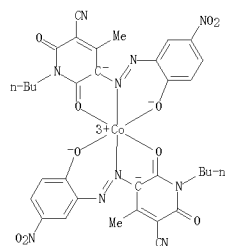
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CRN 866757-36-0
 CMF C28 H31 N2



CM 2

CRN 330442-50-7
 CMF C34 H50 Co N10 O10
 CCI CCS



2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

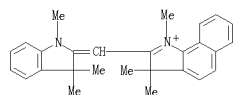
REFERENCE 1: 143:396410

REFERENCE 2: 143:396409

L28 ANSWER 9 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 866757-35-9 REGISTRY
 ED Entered STN: 04 Nov 2005
 CN 3H-Benz[e]indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy- κ O)-5-nitrophenyl]azo- κ N1]-4-methyl-2-oxo-6-(oxo- κ O)-3-pyridinecarbonitrilato(2-)]cobaltate(1-) (9CI) (CA INDEX NAME)
 MF C34 H50 Co N10 O10 . C27 H29 N2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

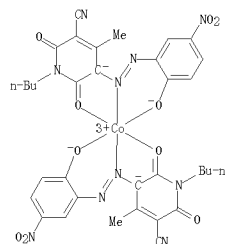
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CRN 866757-34-8
 CMF C27 H29 N2



CM 2

CRN 330442-50-7
 CMF C34 H50 Co N10 O10
 CCI CCS



2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:396410

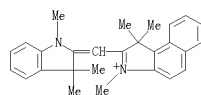
REFERENCE 2: 143:396409

L28 ANSWER 8 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

L28 ANSWER 10 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 866757-33-7 REGISTRY
 ED Entered STN: 04 Nov 2005
 CN 1H-Benz[e]indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,1,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy- κ O)-5-nitrophenyl]azo- κ N1]-4-methyl-2-oxo-6-(oxo- κ O)-3-pyridinecarbonitrilato(2-)]cobaltate(1-) (9CI) (CA INDEX NAME)
 MF C34 H50 Co N10 O10 . C27 H29 N2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

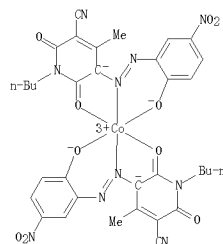
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CRN 866757-32-6
 CMF C27 H29 N2



CM 2

CRN 330442-50-7
 CMF C34 H50 Co N10 O10
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2 REFERENCES IN FILE CA (1907 TO DATE)
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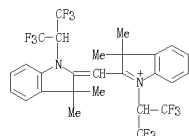
REFERENCE 1: 143:396410

REFERENCE 2: 143:396409

L28 ANSWER 11 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 866757-31-5 REGISTRY
 ED Entered STN: 04 Nov 2006
 CN 3H-Indolium, 2-[[[1,3-dihydro-3,3-dimethyl-1-[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]-2H-indol-2-ylidene)methyl]-3,3-dimethyl-1-[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]-5-bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]cobaltate(1-)] (9CI) (CA INDEX NAME)
 MF C34 H30 Co N10 O10 . C27 H23 F12 N2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

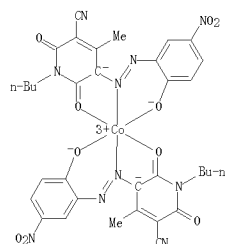
CM 1

CRN 866757-30-4
 CMF C27 H23 F12 N2



CM 2

CRN 330442-50-7
 CMF C34 H30 Co N10 O10
 CCI CCS

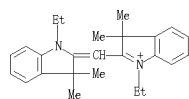


2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L28 ANSWER 12 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 866757-29-1 REGISTRY
 ED Entered STN: 04 Nov 2006
 CN 3H-Indolium, 1-ethyl-2-[[[1-ethyl-3,3-dimethyl-2H-indol-2-ylidene)methyl]-3,3-dimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]cobaltate(1-)] (9CI) (CA INDEX NAME)
 MF C34 H30 Co N10 O10 . C25 H31 N2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

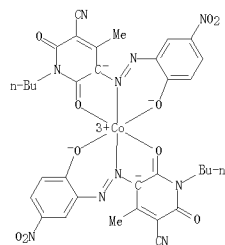
CM 1

CRN 802280-18-8
 CMF C25 H31 N2



CM 2

CRN 330442-50-7
 CMF C34 H30 Co N10 O10
 CCI CCS



2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:396410

REFERENCE 2: 143:396409

L28 ANSWER 11 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

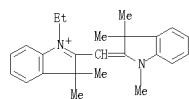
REFERENCE 1: 143:396410

REFERENCE 2: 143:396409

L28 ANSWER 13 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 866757-28-0 REGISTRY
 ED Entered STN: 04 Nov 2006
 CN 3H-Indolium, 2-[[[1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1-ethyl-3,3-dimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]cobaltate(1-)] (9CI) (CA INDEX NAME)
 MF C34 H30 Co N10 O10 . C24 H29 N2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

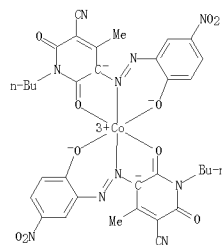
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CRN 866757-27-9
 CMF C24 H29 N2



CM 2

CRN 330442-50-7
 CMF C34 H30 Co N10 O10
 CCI CCS



2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:396410

REFERENCE 2: 143:396409

L28 ANSWER 14 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN
RN 866757-26-8 REGISTRY

ED Entered STN: 04 Nov 2005

CN 3H-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-
1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[2-[2-(hydroxy-
-O)-5-nitrophenyl]diazanyl- κ N1]-4-methyl-2-oxo-6-(oxo-
-O)-3-pyridinecarbonitrilato(2-)]cobaltate(1-) (1:1) (CA INDEX
NAME)

OTHER CA INDEX NAMES:

CN 3H-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-
1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[2-[2-(hydroxy- κ O)-
5-nitrophenyl]diazanyl- κ N1]-4-methyl-2-oxo-6-(oxo- κ O)-3-
pyridinecarbonitrilato(2-)]cobaltate(1-) (9CI)

MF C34 H50 Co N10 O10 . C23 H27 N2

SR CA

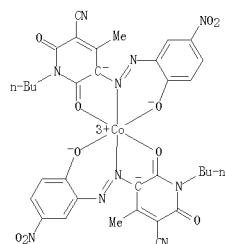
LC STN Files: CA, CAPLUS, USPATFULL

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CRN 330442-50-7

CMF C34 H50 Co N10 O10

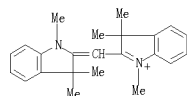
CCI CCS



CM 2

CRN 61575-70-0

CMF C23 H27 N2



5 REFERENCES IN FILE CA (1907 TO DATE)

L28 ANSWER 14 OF 14 REGISTRY COPYRIGHT 2008 ACS on STN
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

(Continued)

REFERENCE 1: 148:42448

REFERENCE 2: 148:21184

REFERENCE 3: 147:82800

REFERENCE 4: 143:396410

REFERENCE 5: 143:396409

=> s 16 and 127 full
L29 14 L6 AND L27

=> fil capl
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FILE COVERS 1907 - 16 Dec 2008 VOL 149 ISS 25
FILE LAST UPDATED: 15 Dec 2008 (20081215/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

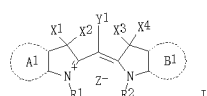
<http://www.cas.org/legal/infopolicy.html>
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=> s 128
L30 8 L28

=> d 1-8 bib abs hitstr

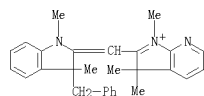
L30 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2008:1073590 CAPLUS
 DN 149:334046
 TI Cyanine dyes for blue laser optical recording media
 IN Shoda, Hisashi; Uchida, Naoyuki; Furumoto, Shigeyuki; Aizawa, Yasushi;
 Dan-Oh, Yasufumi; Toki, Masahiko
 PA Mitsubishi Kagaku Media Co., Ltd., Japan; Kabushiki Kaisha Hayashibara
 Seibutsu Kagaku Kenkyujo
 SO PCT Int. Appl., 55pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2008105238	A1	20080904	WO 2008-JP52368	20080213
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BC, BD, BF, BG, BI, BJ, BK, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
JP 2008239973	A	20081009	JP 2008-46678	20080227
PRAI JP 2007-49968	A	20070228		
GI				

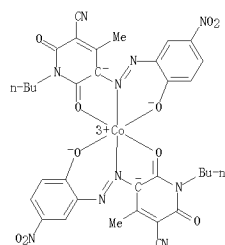


AB The present invention relates to cyanine dyes (I), wherein A1, B1 = independently substituted aromatic ring (at least one aromatic ring of A1 and B1 contains a nitrogen atom); R1, R2 = independently substituent (R1 and/or R2 may be bonded with another cation); X1, X2, X3, X4 = independently organic group (X1 and X2 and/or X3 and X4 may combine together to form a ring structure); Y1 = H or organic group; and Z- = anion. Thus, 3,7 g 2,3-dihydro-1,3,3-trimethyl-2-methylene-1H-pyrrolo[2,3-b]pyridine and 5.8 g 2-(hydroxymino)methyl-1,3,3-trimethyl-3H-indolium perchlorate were heated at 90° for 1 h to give a cyanine compound with decomposition point 255°, λ_{max} 424.5 nm, and absorption coefficient 3.74 + 106 at 424.5 nm.
 IT 1052689-86-7P 1052689-87-8P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (Preparation of cyanine dyes for blue laser optical recording media)
 RN 1052689-86-7 CAPLUS

L30 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



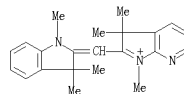
CM 2
 CRN 330442-50-7
 CMF C34 H30 Co N10 O10
 CCI CCS



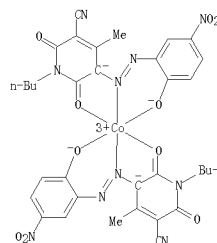
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 CN 3H-Pyrrolo[2,3-b]pyridinium, 2-[[1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[2-[2-(hydroxy-κO)-5-nitrophenyl]diazanyl-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]cobaltate(1-) (1:1) (CA INDEX NAME)

CM 1
 CRN 1052689-82-3
 CMF C22 H26 N3



CM 2
 CRN 330442-50-7
 CMF C34 H30 Co N10 O10
 CCI CCS



RN 1052689-87-8 CAPLUS
 CN 3H-Pyrrolo[2,3-b]pyridinium, 2-[[1,3-dihydro-1,3-dimethyl-3-(phenylmethyl)-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[2-[2-(hydroxy-κO)-5-nitrophenyl]diazanyl-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]cobaltate(1-) (1:1) (CA INDEX NAME)

CM 1
 CRN 1052689-84-5
 CMF C28 H30 N3

L30 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:1396888 CAPLUS
 DN 148:42448
 TI Optical disk, information recording method, and information reproducing method
 IN Umezawa, Kazuyo; Morita, Seiji; Takazawa, Koji; Ando, Hideo; Ootera, Yasuaki; Nakamura, Naomasa; Morishita, Naoki
 PA Kabushiki Kaisha Toshiba, Japan
 SO Eur. Pat. Appl., 59pp.
 CODEN: EPXDXW
 DT Patent
 LA English
 FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1863026	A2	20071205	EP 2007-109208	20070530
EP 1863026	A3	20080102		
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				

JP 2007323719	A	20071213	JP 2006-151584	20060531
US 20070281123	A1	20071206	US 2007-752705	20070523
IN 2007DE01138	A	20071207	IN 2007-DE1138	20070529
CN 101083097	A	20071205	CN 2007-10105910	20070531
PRAI JP 2006-151584	A	20060531		

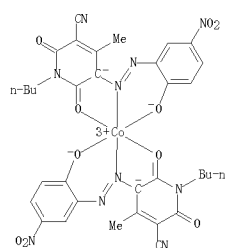
AB A re-recordable write-once optical disk by which recording/reproducing can be properly done with a short-wavelength blue laser is provided. The disk has recording layers on which marks are recorded by the laser power of a modulated short wavelength, with a space formed between the recorded marks. The recording layer of the disk uses an organic dye material by which no phys. modification or no phys. change substantially occurs in an area of the recorded marks.

IT 866757-26-8
 RL: TEM (Technical or engineered material use); USES (Uses)
 (Optical disk, information recording method, and information reproducing method)

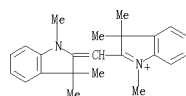
RN 866757-26-8 CAPLUS
 CN 3H-Indolium, 2-[[1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[2-[2-(hydroxy-κO)-5-nitrophenyl]diazanyl-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]cobaltate(1-) (1:1) (CA INDEX NAME)

CM 1
 CRN 330442-50-7
 CMF C34 H30 Co N10 O10
 CCI CCS

L30 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



CM 2

CRN 61575-70-0
CMF C23 H27 N2L30 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:1396692 CAPLUS

DN 148:21184

TI Optical disk, information recording method, information reproducing method, and disk drive

IN Yoshida, Nobuhisa; Otera, Yasuaki; Umezawa, Kazuyo; Nakamura, Naomasa; Takazawa, Koji; Ando, Hideo

PA Kabushiki Kaisha Toshiba, Japan

SO Bur. Pat. Appl., 26pp.

CODEN: EPXXDW

DT Patent

LA English

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1863025	A2	20071206	EP 2007-109205	20070530
EP 1863025	A3	20080730		
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU, RS				
JP 2007323773	A	20071213	JP 2006-155109	20060602
US 20070280095	A1	20071206	US 2007-755921	20070531
CN 101058096	A	20071206	CN 2007-10105866	20070601
PRAI JP 2006-155109	A	20060602		

AB A write-once optical disk which uses a short-wavelength laser (wavelength = 600 nm or less) allows BCA information recording even using a long-wavelength laser (wavelength falling within a range from 600 nm to 800 nm). To this end, a groove is cut in advance on a BCA part on a molded substrate of the optical disk to store a dye. In this way, the sensitivity of the dye in the BCA increases, to allow a laser having a wavelength (a wavelength falling within the range from 600 nm to 800 nm) other than the wavelength (e.g., 405 nm) corresponding to information recording of the dye to record a barcode pattern on the BCA.

IT 866757-26-8

RL: TEM (Technical or engineered material use); USES (Uses)
(Optical disk, information recording method, information reproducing method, and disk drive)

RN 866757-26-8 CAPLUS

CN 3H-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[2-[2-(hydroxy-6-mitrophenyl)diazenyl-3-yl]-4-methyl-2-oxo-6-(oxo-4-methyl-3-pyridinecarboxylate(2-))]cobaltate(1-)] (1:1) (CA INDEX NAME)

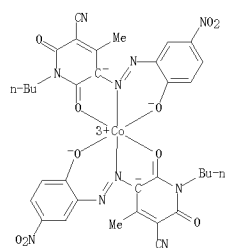
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CRN 330442-50-7

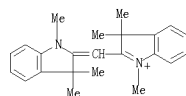
CMF C34 H50 Co N10 O10

CCI CCS

L30 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



CM 2

CRN 61575-70-0
CMF C23 H27 N2L30 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:1144422 CAPLUS

DN 147:450314

TI Preparation of cyanine compound and its salts for optical recording material

IN Yano, Toru; Yanagisawa, Satoshi; Aoyama, Yohei; Shigeno, Koichi

PA Adeka Corporation, Japan

SO PCT Int. Appl., 47pp.

CODEN: P1XXD2

DT Patent

LA Japanese

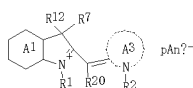
FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007114073	A1	20071011	WO 2007-TP55998	20070323
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

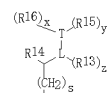
PRAI JP 2006-06534 A 20060331

OS MARPAT 147:450314

GI



I



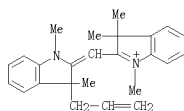
II



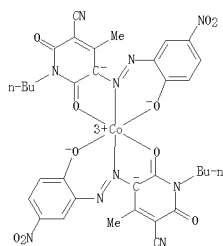
III

AB A cyanine compound(I): wherein the ring A1 represents a benzene ring or a naphthalene ring; the ring A3 represents a 5- or 6-membered ring; R1 and R2 independently represent a H atom or the like; R7 represents an alkyl group or the like; R12 represents a substituent represented by the general formula II or III; R20 represents a H atom or the like; An⁻ represents an anion having a valency number of q; q represents 1 or 2; and p represents a factor for maintaining the charge neutral. In II, the bond between L and T is a double bond, a conjugated double bond or a triple bond; L represents a C atom; T represents a C atom, an O atom, a S atom, or a N atom; x, y and z independently represent 0 or 1; s represents a number ranging from 0 to 4; R13 represents a H atom or the like; and R14, R15 and R16 independently represent a H atom or the like; and in III, the bond between L' and T' is a double bond or a conjugated double bond; L'

L30 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 represents a C atom; T represents a C atom, an O atom or a N atom; s' represents a no. ranging from 0 to 4; and the ring contg. L' and T' is a 5-membered ring which may have a heteroatom, or the like. Thus, a Co coordination anion salt of indole compd. IV was prepd., dissolved in a solvent and spin coated on a T-50 covered polycarbonate substrate and gave an optical imaging layer that showed high UV resistance.
 IT 952061-99-3P 952062-01-0P
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 RN 952061-99-3 CAPLUS
 CN 3H-Indolium, 2-[[1,3-dihydro-1,3-dimethyl-3-(2-propen-1-yl)-2H-indol-2-ylidene]methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[2-[2-(hydroxy-κO)-5-nitrophenyl]diazanyl-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarboxylato(2-)]cobaltate(1-) (1:1) (CA INDEX NAME)
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 CMF C25 H29 N2



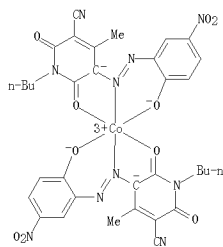
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 CMF C34 H30 Co N10 O10
 CCI CCS



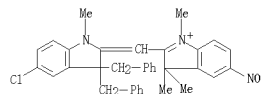
L30 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:665358 CAPLUS
 DN 147:82800
 TI Manufacture of WORM disks for blue laser recording/readout by spin coating of organic dye recording layers and polycarbonate substrates for them
 IN Uchida, Naoyuki; Hoshino, Hiroyuki; Kawano, Satoshi; Kirifuji, Yukari
 PA Mitsubishi Chemical Media Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 32pp.
 CODEN: JXXXXF
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2007152825	A	20070621	JP 2005-353204	20051207
PRAI JP 2005-353204		20051207		

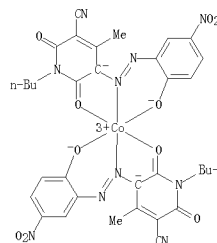
 AB In the manufacture, concentrically or spirally grooved substrates are spin-coated with organic dye solns. through nozzles while rotating the substrates and smoothly moving the nozzles from inner to outer circumferences at average rate 5-15 mm/s. Discharging of the solns. from the nozzles is stopped at a position Rstop satisfying 50.0 mm ≤ Rstop ≤ (Rdisk + 1.0) mm (Rdisk = radius of the disks ≥40 mm). Manufactured optical disks are also claimed. The substrates have in-plane birefringence from -30 to +10 nm at 650±5nm and maximum-min. birefringence difference ≤35 nm. Uniform-thickness recording layers are manufactured by the above method.
 IT 866757-26-8
 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 RN 866757-26-8 CAPLUS
 CN 3H-Indolium, 2-[[1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene]methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[2-[2-(hydroxy-κO)-5-nitrophenyl]diazanyl-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarboxylato(2-)]cobaltate(1-) (1:1) (CA INDEX NAME)
 CM 1
 CRN 330442-50-7
 CMF C34 H30 Co N10 O10
 CCI CCS



L30 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 RN 952062-01-0 CAPLUS
 CN 3H-Indolium, 2-[[5-chloro-1,3-dihydro-1-methyl-3,3-bis(phenylmethyl)-2H-indol-2-ylidene]methyl]-1,3,3-trimethyl-5-nitro-, bis[1-butyl-1,2,5,6-tetrahydro-5-[2-[2-(hydroxy-κO)-5-nitrophenyl]diazanyl-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarboxylato(2-)]cobaltate(1-) (1:1) (CA INDEX NAME)
 CM 1
 CRN 952062-00-9
 CMF C35 H33 Cl N3 O2

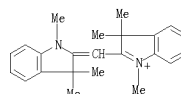


CM 2
 CRN 330442-50-7
 CMF C34 H30 Co N10 O10
 CCI CCS



RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 CM 2
 CRN 61575-70-0
 CMF C23 H27 N2



L30 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:1226942 CAPLUS

DN 145:507110

TI Cyanine colorants with good lightfastness, solubility, and heat characteristics for optical recording media

IN Aizawa, Yasushi; Ito, Michie; Dan-Oh, Yasufumi; Yano, Kentaro; Shoda, Hisashi; Satake, Kenichi; Uchida, Naoyuki

PA Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Japan

SO PCT Int. Appl., 50pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006123786	A1	20061123	WO 2006-JP310051	20060519
W: AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UU, UV, UW, UX, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.				
EP 1897915	A1	20080312	EP 2006-746658	20060519
R: DE, GB				
IN 2007CN05270	A	20080125	IN 2007-CN5270	20071120
CN 101193985	A	20080604	CN 2006-80020087	20071206
PRAI JP 2005-147544	A	20050620		
WO 2006-JP310051	W	20060519		
OS MARPAT 145:507110				
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title cyanine compds. I which absorb short-wavelength visible light can be used as a light absorbing material in a wide variety of applications including information recording, solar power generation, elec. machineries and apparatus, elec. communication equipment, optical equipment, clothing materials, building and bedding products, healthy and hygienic goods, and agricultural materials, particularly optical recording media, wherein R1, R2, R3, R4, R5, R6 = (un)substituted hydrocarbon; R7, R8 = H or substituent; and X = transition metal (Group 5-Group 12) complex. Thus, 1.8 g a compound II and 2.6 g a compound III were refluxed in acetic anhydride, 0.7 g of the resulting compound was reacted with 0.9 g a metal azo complex to give a cyanine colorant IV, showing m.p. 190°, decomposition temperature 250°, λ_{max} 469 nm (extinction coefficient 8.62 + 104), and good solubility in organic solvents and light resistance.

IT 915131-83-8P

RL: IMP (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(colorant; preparation of cyanine colorants with good lightfastness, solubility, and heat characteristics for optical recording media)

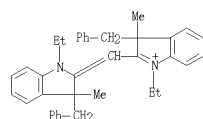
RN 915131-83-8 CAPLUS

L30 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 1

CRN 915131-74-7

CMF C37 H39 N2

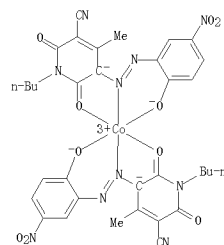


CM 2

CRN 330442-50-7

CMF C34 H30 Co N10 O10

CCI CCS



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

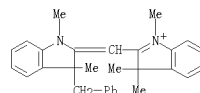
L30 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CN 3H-Indolium, 2-[[[1,3-dihydro-1,3-dimethyl-3-(phenylmethyl)-2H-indol-2-ylidene]methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarboxylato(2-)]cobaltate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 915131-81-6

CMF C29 H31 N2

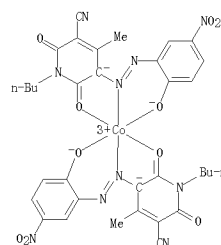


CM 2

CRN 330442-50-7

CMF C34 H30 Co N10 O10

CCI CCS



IT 915131-76-9P

RL: IMP (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(intermediate; preparation of cyanine colorants with good lightfastness, solubility, and heat characteristics for optical recording media)

RN 915131-76-9 CAPLUS

CN 3H-Indolium, 1-ethyl-2-[[[1-ethyl-1,3-dihydro-3-methyl-3-(phenylmethyl)-2H-indol-2-ylidene]methyl]-3-methyl-3-(phenylmethyl)-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarboxylato(2-)]cobaltate(1-)] (9CI) (CA INDEX NAME)

L30 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:112631 CAPLUS

DN 143:396410

TI Write-once information recording medium and dyes thereof

IN Morita, Seiji; Takazawa, Koii; Morishita, Naoki; Nakamura, Naomasa;

Aizawa, Yasushi; Koyama, Yoshinori

PA Kabushiki Kaisha Toshiba, Japan; Hayashibara Biochemical Laboratories, Inc.

SO Eur. Pat. Appl., 32 pp.

CODEN: EPXDXW

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1587092	A2	20051019	EP 2005-102627	20050404
EP 1587092	A3	20060419		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
JP 2005297407	A	20051027	JP 2004-118545	20040413
CN 1694167	A	20051109	CN 2005-10065179	20050413
KR 2006045666	A	20060517	KR 2005-50727	20050413
PRAI JP 2004-118545	A	20040413		
OS MARPAT 143:396410				

AB A write-once information recording disk has a transparent substrate having concentric or spiral grooves formed therein, and a recording film formed on the grooves on the transparent substrate, wherein the recording groove has an anion portion and a pigment portion, being formed of one organic pigment of which maximum absorption wavelength region from the wavelength of short wavelength laser light to be emitted to the recording film is present at the longer wavelength side, a recording mark is formed on the recording film by irradiation with short wavelength laser light, and the recording mark has a higher light reflectivity than the light reflectivity of the recording film before irradiation with the short wavelength laser light. Therefore, the write-once type optical disk has a so-called low-to-high characteristic, i.e., the reflectivity is higher after recording than before recording.

IT 866757-26-8 866757-28-0 866757-29-1 866757-31-5 866757-33-7 866757-35-9 866757-37-1 866757-39-3

RL: TEM (Technical or engineered material use); USES (Uses)
(write-once information recording medium containing dyes)

RN 866757-26-8 CAPLUS

CN 3H-Indolium, 2-[[[1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene]methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-[2-(hydroxy-κO)-5-nitrophenyl]diazenyl-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarboxylato(2-)]cobaltate(1-)] (1:1) (CA INDEX NAME)

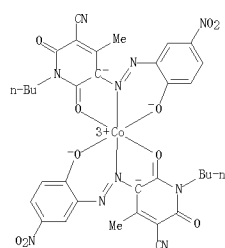
CM 1

CRN 330442-50-7

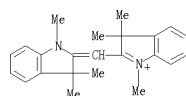
CMF C34 H30 Co N10 O10

CCI CCS

L30 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

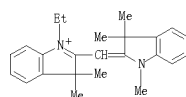


CM 2

CRN 61575-70-0
CMF C23 H27 N2

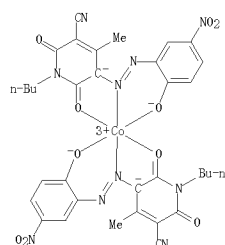
RN 866757-28-0 CAPLUS
CN 3H-Indolium, 2-[[[1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1-ethyl-3,3-dimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN]]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]cobaltate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 866757-27-9
CMF C24 H29 N2

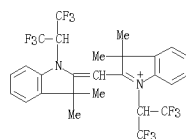
CM 2

L30 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 866757-31-5 CAPLUS
CN 3H-Indolium, 2-[[[1,3-dihydro-3,3-dimethyl-1-[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]-2H-indol-2-ylidene)methyl]-3,3-dimethyl-1-[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN]]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]cobaltate(1-)] (9CI) (CA INDEX NAME)

CM 1

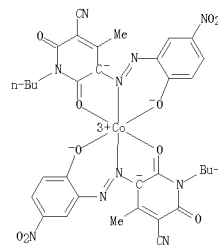
CRN 866757-30-4
CMF C27 H23 F12 N2

CM 2

CRN 330442-50-7
CMF C34 H30 Co N10 O10
CCI CCS

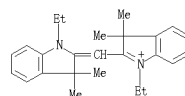
L30 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CRN 330442-50-7
CMF C34 H30 Co N10 O10
CCI CCS



RN 866757-29-1 CAPLUS
CN 3H-Indolium, 1-ethyl-2-[(1-ethyl-3,3-dimethyl-2H-indol-2-ylidene)methyl]-3,3-dimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN]]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]cobaltate(1-)] (9CI) (CA INDEX NAME)

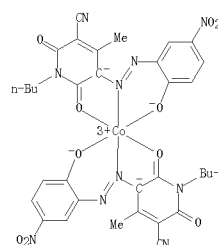
CM 1

CRN 802260-18-8
CMF C25 H31 N2

CM 2

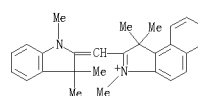
CRN 330442-50-7
CMF C34 H30 Co N10 O10
CCI CCS

L30 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 866757-33-7 CAPLUS
CN 1H-Benz[e]indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,1,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN]]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]cobaltate(1-)] (9CI) (CA INDEX NAME)

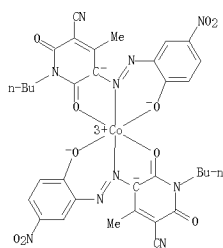
CM 1

CRN 866757-32-6
CMF C27 H29 N2

CM 2

CRN 330442-50-7
CMF C34 H30 Co N10 O10
CCI CCS

L30 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

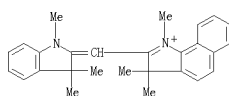


RN	866757-35-9	CAPLUS
CN	3H-Benz[<i>g</i>]indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy- κ O)-5-nitrophenyl]azo- κ N1]-4-methyl-2-oxo-6-(oxo- κ O)-3-pyridinecarbonitrilato(2-)]cobaltate(1-) (9CI) (CA INDEX NAME)	

CM 1

CRN 866757-34-8

CMF C27 H29 N2



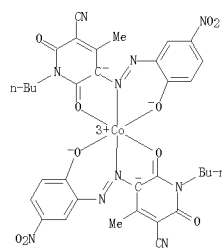
CM 2

CRN 330442-50-7

CMF C34 H30 Co N10 O10

CCI	OCS
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L30 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

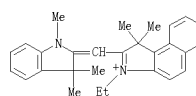


RN 866757-37-1 CAPLUS
 CN 1H-Benz[e]indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-3-ethyl-1,1-dimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarbonitrilato(2-)]cobaltate (1-) (9CI) (CA INDEX NAME)

CM 1

CRN 866757-36-0

CMF C28 H31 N2



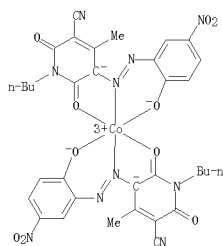
CM 2

CRN 330442-50-7

CMF C34 H30 Co N10 O10

CCI	COS
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L30 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

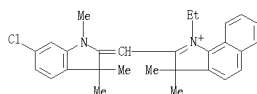


RN 866757-39-3 CAPLUS
 CN 3H-Benz[gl]indolium, 2-[(6-chloro-1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1-ethyl-3,3-dimethyl-, bis[(1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy- κ O)-5-nitrophenyl]azo- κ N]-4-methyl-2-oxo-6-(oxo- κ O)-3-pyridinecarbonitrilato(2-)]cobaltate(1-)(9CI) (CA INDEX NAME)

CM 1

CRN 866757-38-2

CMF C28 H30 Cl N2



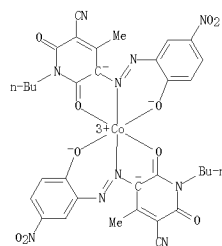
CM 2

CRN 330442-50-7

CMF C34 H30 Co N10 O10

CCI	OCS
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L30 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



L30 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:1106715 CAPLUS

DN 143:396409

TI Recording material for medium

IN Morita, Seiji; Takazawa, Koji; Morishita, Naoki; Nakamura, Naomasa;

Aizawa, Yasushi; Kawada, Yoshinori

PA Kabushiki Kaisha Toshiba, Japan; Hayashibara Biochemical Laboratories, Inc.

S0 U.S. Pat. Appl. Publ., 26 pp.

CODEN: USXXCO

DT Patent

LA English

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 20050227178	A1	20051013	US 2005-103646	20050412
JP 2005297406	A	20051027	JP 2004-118344	20040413
EP 1587093	A2	20051019	EP 2005-103631	20050404
EP 1587093	A3	20060419		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
IN 2005DE08872	A	20061110	IN 2005-DE872	20050405
CN 1684171	A	20051019	CN 2005-10065178	20050413
KR 2006045657	A	20060517	KR 2005-30690	20050413
PRAI JP 2004-118344	A	20040413		

OS MARPAT 143:396409

AB The present invention relates to a recording material for a medium used for the recording film of a write-once type information recording disk equipped with a transparent resin substrate on which concentric or spiral grooves were formed and a recording film which was formed on the grooves, characterized in that it is formed by one organic coloring matter having an anion portion and a coloring matter portion in which the maximum absorption wavelength zone exists at a longer wavelength side than the wavelength of short wavelength laser beam irradiated on the recording film and forms a record mark on the recording film by irradiation of the short wavelength laser beam, and the record mark has a higher optical reflection coefficient than the optical reflection coefficient of the recording film before irradiation of the short wavelength laser beam. This material realizes so-called Low to High property.

IT 866757-26-8 866757-28-0 866757-29-1

866757-31-5 866757-33-7 866757-35-9

866757-37-1 866757-39-3

RL: TEM (Technical or engineered material use); USES (Uses)

(organic coloring matter; recording material for medium containing)

RN 866757-26-8 CAPLUS

CN 3H-Indolium, 2-[[[1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-[2-(hydroxy- κ O)-5-nitrophenyl]diazenyl- κ N]]-4-methyl-2-oxo-6-(oxo- κ O)-3-pyridinecarbonitrilato(2-)]cobaltate(1-)] (1:1) (CA INDEX NAME)

CM 1

CRN 330442-50-7

CMF C34 H30 Co N10 O10

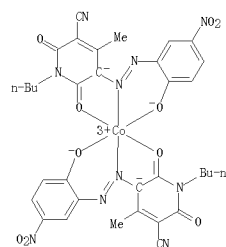
CCI CCS

L30 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CRN 330442-50-7

CMF C34 H30 Co N10 O10

CCI CCS



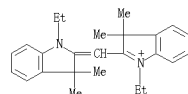
RN 866757-29-1 CAPLUS

CN 3H-Indolium, 1-ethyl-2-[[[1-ethyl-3,3-dimethyl-2H-indol-2-ylidene)methyl]-3,3-dimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy- κ O)-5-nitrophenyl]diazenyl- κ N]]-4-methyl-2-oxo-6-(oxo- κ O)-3-pyridinecarbonitrilato(2-)]cobaltate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 802280-18-8

CMF C25 H31 N2



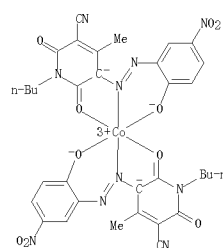
CM 2

CRN 330442-50-7

CMF C34 H30 Co N10 O10

CCI CCS

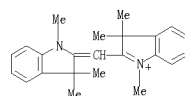
L30 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



CM 2

CRN 61575-70-0

CMF C23 H27 N2



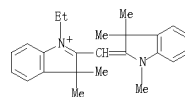
RN 866757-28-0 CAPLUS

CN 3H-Indolium, 2-[[[1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1-ethyl-3,3-dimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy- κ O)-5-nitrophenyl]diazenyl- κ N]]-4-methyl-2-oxo-6-(oxo- κ O)-3-pyridinecarbonitrilato(2-)]cobaltate(1-)] (9CI) (CA INDEX NAME)

CM 1

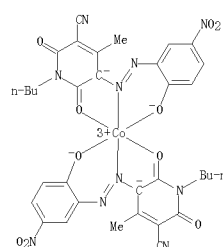
CRN 866757-27-9

CMF C24 H29 N2



CM 2

L30 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



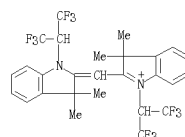
RN 866757-31-5 CAPLUS

CN 3H-Indolium, 2-[[[1,3-dihydro-3,3-dimethyl-1-[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]-2H-indol-2-ylidene)methyl]-3,3-dimethyl-1-[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy- κ O)-5-nitrophenyl]diazenyl- κ N]]-4-methyl-2-oxo-6-(oxo- κ O)-3-pyridinecarbonitrilato(2-)]cobaltate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 866757-30-4

CMF C27 H23 F12 N2



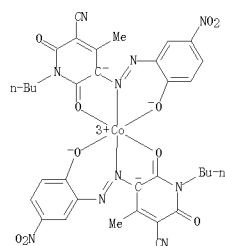
CM 2

CRN 330442-50-7

CMF C34 H30 Co N10 O10

CCI CCS

L30 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

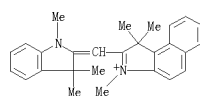


RN 866757-33-7 CAPLUS
 CN 1H-Benz[e]indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,1,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarboxylato(2-)]cobaltate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 866757-32-6

CMF C27 H29 N2



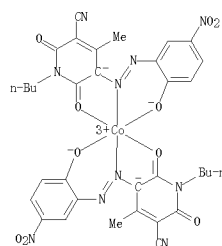
CM 2

CRN 330442-50-7

CMF C34 H30 Co N10 O10

CCI CCS

L30 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

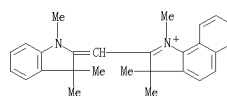


RN 866757-35-9 CAPLUS
 CN 3H-Benz[g]indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarboxylato(2-)]cobaltate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 866757-34-8

CMF C27 H29 N2



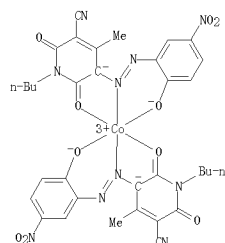
CM 2

CRN 330442-50-7

CMF C34 H30 Co N10 O10

CCI CCS

L30 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

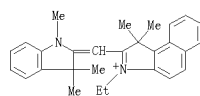


RN 866757-37-1 CAPLUS
 CN 1H-Benz[e]indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-3-ethyl-1,1-dimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarboxylato(2-)]cobaltate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 866757-36-0

CMF C28 H31 N2



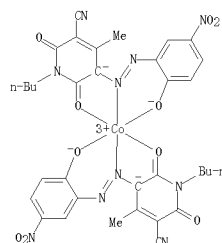
CM 2

CRN 330442-50-7

CMF C34 H30 Co N10 O10

CCI CCS

L30 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

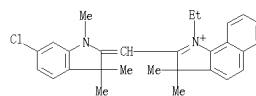


RN 866757-39-3 CAPLUS
 CN 3H-Benz[g]indolium, 2-[(6-chloro-1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1-ethyl-3,3-dimethyl-, bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy-κO)-5-nitrophenyl]azo-κN1]-4-methyl-2-oxo-6-(oxo-κO)-3-pyridinecarboxylato(2-)]cobaltate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 866757-38-2

CMF C28 H30 Cl N2



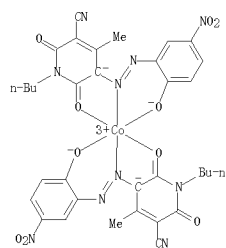
CM 2

CRN 330442-50-7

CMF C34 H30 Co N10 O10

CCI CCS

L30 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



=> d his

(FILE 'HOME' ENTERED AT 14:34:37 ON 16 DEC 2008)

FILE 'REGISTRY' ENTERED AT 14:34:59 ON 16 DEC 2008

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 0 S L1 AND L2
L4 0 S L1 AND L2 FULL
L5 7 S L1
L6 214 S L1 FULL
L7 2 S L2
L8 81 S L2 FULL
L9 0 S L6 AND L8

FILE 'CAPLUS' ENTERED AT 14:42:19 ON 16 DEC 2008

L10 112 S L6
L11 5 S L8
L12 0 S L10 AND L11

FILE 'REGISTRY' ENTERED AT 14:46:10 ON 16 DEC 2008

FILE 'CAPLUS' ENTERED AT 14:47:08 ON 16 DEC 2008

FILE 'HOME' ENTERED AT 14:47:54 ON 16 DEC 2008

FILE 'REGISTRY' ENTERED AT 14:49:30 ON 16 DEC 2008

L13 STRUCTURE UPLOADED
L14 1 S L13
L15 25 S L13 FULL
L16 13 S L15 AND CAPLUS/LC
L17 12 S L15 NOT L16

FILE 'CAPLUS' ENTERED AT 14:52:32 ON 16 DEC 2008

L18 3 S L15
 E AIZAWA YASUSHI/AU
L19 30 S E3
 E KOYAMA YOSHINORI/AU
L20 84 S E3
 E NOGUCHI AYASHI/AU
L21 16 S E3
L22 122 S L19 OR L20 OR L21
L23 19 S L22 AND CYANINE
 SEL L23 11 RN

FILE 'REGISTRY' ENTERED AT 14:58:09 ON 16 DEC 2008

L24 4 S E1-E4

FILE 'HOME' ENTERED AT 14:59:36 ON 16 DEC 2008

FILE 'REGISTRY' ENTERED AT 15:01:56 ON 16 DEC 2008

L25 STRUCTURE UPLOADED
L26 8 S L25
L27 142 S L25 FULL
L28 14 S L6 AND L27
L29 14 S L6 AND L27 FULL

FILE 'CAPLUS' ENTERED AT 15:06:09 ON 16 DEC 2008

L30 8 S L28

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=> s l6 and l27
      112 L6
      34 L27
L31      9 L6 AND L27

=> s l31 not l30
L32      1 L31 NOT L30

=> d bib abs hitstr
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LS2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:979709 CAPLUS
 DN 143:268290
 TI Short visible light absorbing cyanine dyes with good light resistance and solubility
 IN Aizawa, Yasushi; Koyama, Yoshinori; Noguchi, Avashi
 PA Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo, Japan
 SO PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005083011	A1	20050909	WO 2005-JP2978	20050224
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BF, BG, BZ, CA, CH, CI, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1734055	A1	20061220	EP 2005-710629	20050224
R: DE, GB				
CN 1934198	A	20070321	CN 2005-80008684	20050224
KR 2007015132	A	20070201	KR 2006-717173	20060825
IN 2006CN03552	A	20070622	IN 2006-CN3552	20060926
US 20080000094	A1	20080103	US 2007-590895	20070613
PRAI JP 2004-53528	A	20040227		
JP 2004-63296	A	20040308		
JP 2004-175653	A	20040611		
WO 2005-JP2978	W	20050224		

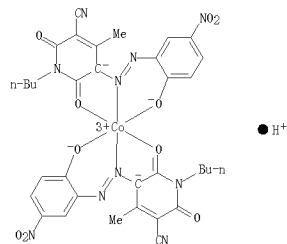
OS MARPAT 143:268290
 AB Title cyanine dyes have a specific structure and exhibit the primary local maximum of absorption in the region of a wavelength ≥ 400 nm in the state of a solution. Thus, 2 g 2-[(1,3-dihydro-1,3,3-trimethyl-2H-2-ylidene)methyl]-1,3,3-trimethyl-3H-indolium perchlorate and 3.5 g triethylammonium bis[1-butyl-1,2-dihydro-6-(hydroxy- κ O)-5-[[2-(hydroxy- κ O)-5-nitrophenyl]azo- κ N]]-4-methyl-2-oxo-3-pyridinecarboxylate(2-)]-cobaltate were refluxed for 20 min in 20 mL acetonitrile, removed solvent, ethanol was added therein and refluxed for 30 min to give a cyanine dye with absorption maximum 447 nm, good solubility in various solvents, decomposition temperature 245°, and good light resistance.

IT 330442-50-7P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (short visible light absorbing cyanine dyes with good light resistance and solubility)
 RN 330442-50-7 CAPLUS
 CN Cobaltate (1-), bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy- κ O)-5-nitrophenyl]azo- κ N]]-4-methyl-2-oxo-6-(oxo- κ O)-3-pyridinecarboxylate(2-)]- (9CI) (CA INDEX NAME)

LS2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 nitrophenyl]diazenyl- κ N]]-4-methyl-2-oxo-6-(oxo- κ O)-3-pyridinecarboxylate(2-)]-, hydrogen, compd. with N,N-diethylethanamine (1:1:1) (CA INDEX NAME)

CM 1

CRN 419581-79-6
 CMF C34 H30 Co N10 O10 . H
 CCI CCS



CM 2

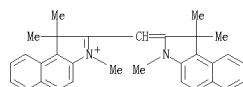
CRN 121-44-8
 CMF C6 H15 N

Et
 Et-N-Et

RN 863962-11-2 CAPLUS
 CN 1H-Benz[e]indolium, 2-[(1,3-dihydro-1,1,3-trimethyl-2H-benz[e]indol-2-ylidene)methyl]-1,1,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

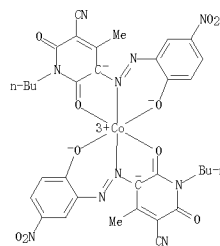
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CRN 157075-00-8
 CMF C31 H31 N2



CM 2

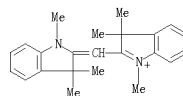
LS2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



IT 103998-41-0 419581-80-9 863962-11-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (short visible light absorbing cyanine dyes with good light resistance and solubility)
 RN 103998-41-0 CAPLUS
 CN 3H-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CM 1

CRN 61575-70-0
 CMF C23 H27 N2



CM 2

CRN 14797-73-0
 CMF C1 O4



RN 419581-80-9 CAPLUS
 CN Cobaltate (1-), bis[1-butyl-1,2,5,6-tetrahydro-5-[[2-(hydroxy- κ O)-5-

LS2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 CRN 14797-73-0
 CMF C1 O4



RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 14:34:37 ON 16 DEC 2008)

FILE 'REGISTRY' ENTERED AT 14:34:59 ON 16 DEC 2008

L1 STRUCTURE UPLOADED
 D
L2 STRUCTURE UPLOADED
 D
L3 0 SEA SSS SAM L1 AND L2
L4 0 SEA SSS FUL L1 AND L2
L5 7 SEA SSS SAM L1
L6 214 SEA SSS FUL L1
L7 2 SEA SSS SAM L2
 D SCAN
L8 81 SEA SSS FUL L2
L*** DEL 0 S L6 AND L7
L9 0 SEA ABB=ON PLU=ON L6 AND L8

FILE 'CAPLUS' ENTERED AT 14:42:19 ON 16 DEC 2008

L10 112 SEA ABB=ON PLU=ON L6
L11 5 SEA ABB=ON PLU=ON L8
L12 0 SEA ABB=ON PLU=ON L10 AND L11
 D L11 1-5 BIB ABS HITSTR

FILE 'REGISTRY' ENTERED AT 14:46:10 ON 16 DEC 2008

D L1
D L2

FILE 'CAPLUS' ENTERED AT 14:47:08 ON 16 DEC 2008

SEL L23 11 RN

FILE 'REGISTRY' ENTERED AT 14:58:09 ON 16 DEC 2008

L24 4 SEA ABB=ON PLU=ON (103998-41-0/BI OR 330442-50-7/BI OR
 419581-80-9/BI OR 863962-11-2/BI)
 D 1-4 IDE CAN

FILE 'HOME' ENTERED AT 14:59:36 ON 16 DEC 2008

FILE 'REGISTRY' ENTERED AT 15:01:56 ON 16 DEC 2008

L25 STRUCTURE UPLOADED
 D

L26 8 SEA SSS SAM L25

L27 142 SEA SSS FUL L25

L28 14 SEA ABB=ON PLU=ON L6 AND L27

 D QUE L28 STAT

 D 1-14 IDE CAN

L29 14 SEA ABB=ON PLU=ON L6 AND L27

FILE 'CAPLUS' ENTERED AT 15:06:09 ON 16 DEC 2008

L30 8 SEA ABB=ON PLU=ON L28

 D 1-8 BIB ABS HITSTR

L31 9 SEA ABB=ON PLU=ON L6 AND L27

L32 1 SEA ABB=ON PLU=ON L31 NOT L30

 D BIB ABS HITSTR

FILE HOME

FILE REGISTRY

strictly prohibited.

FILE COVERS 1907 - 16 Dec 2008 VOL 149 ISS 25
FILE LAST UPDATED: 15 Dec 2008 (20081215/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> log h

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
51.45	1171.18

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-7.20	-33.60

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 15:08:55 ON 16 DEC 2008